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Pred. No. is the number of results predicted by chance to have a scure greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| SEQUENCE FROM N.A. (LESTORM BEIA 2A). | (EIN+ (448) | ovic D., Taylor R | | SEOUENCE OF 59-530 FROM N.A. (ISOFORM BETA-5A AND BETA-6). | Naciona ACIAS Res. 25:2505-2512(1998). | beta ex: a potential inhibitor of estrogen action in human."; | 0 | | Codewa S. Douge S. Watanabe T. Crimo A. Hosel F., Onchi Y., | MORE THE 98327408 - POL MORE 9671811 - | TISSIESTEST S: | TENDERAL MARKET THAT TAKE TO VEST MESTER SELVEN | FEBS Lett. 392:49-53(1996). | | "ER beta: identification and characterization of a novel human | Mosselman S., Poliman J., Dijkema R.; | MEDLINE-96354875; PubMed-8769313; | SECURITION OF AN OWN INCH H.A. (1884-088) BITA (). ARE CHARACTERIZATION. | | Bloothom, Blophys, Res. Commun. 247:75-78(1998). | isotorms."; | receptor beta | Horne E.L., Su J. L., Kliewer S.A., Lehmann J.M., Willson I.M.: | Topos o | MATTER TABLES OF THE MATTER AND THE MATTER AND THE STATE OF THE STATE | SECONDECEMENT AND ALGERNALIVE SPECIALIS. | | Biochem. Biophys. Res. Commun. 24 (:122-126(1998). | | (herbeta) and its heterodimenization with Exalpha in vivo and in | human estrogen receptor | Ogawa S., Inone S., Walanabe J., HIFOI H., Offino A., HoSoi I., Ouchi Y., Moramatso M.: | | SEQUENCE FROM N.A. (ISOFORM HETA-1). | · = | | Buxaryola; Metazoa; Chordala; Crantala; Vertebrala; Buteteostomi; Mammalia: Euthoria: Primates: Catarrhini: Hominidae; Homo. | | ESR2 OR NR3A2 OR ESTRB. | Estrogen receptor beta (ER-beta). | 16-001-2001 (Rel. 40, Last annotation update) | 15-JUL-1999 (Rel. 38, Last sequence update) | 15-JUL-1999 (Rel. 38, Created) | | 092731. (760685. (360608. 075584. 050702. 060703: 075583: 0900Ky: | HUMAN GRANDAUD. DET. SEE | |

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use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Perpet by and for commercial entities requires a license agreement (See b) p.//www.isb.sib.eh/announce/
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"Estrogen receptor beta mRNA variants in human and murine tissues.";
Mol. Cell. Endocrinol. 18:199-203(1998).
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Mechanism iption regulation: DNA-binding: Nuclear protein:
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§ 3. TAHANTWATTTTGAAAAAAAAHTTHAMBANKVHAAHSTIMTINVTHAMSÖÖÖS (1177)
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RESULT
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ALPHA (BY SIMILARITY).

11- SIBCELLHAR LOCATION: NECLOSI.

11- ALTERNATIVE RODUCTS: AT LEAST 2 ISOFORMS: BETA (SHOWN HERE) AND BETA: 1, ORE PRODUCED BY ALTERNATIVE SPLICING.

11- DOMAIN: COMPOSED OF THREE DOMAINS: A MODELATING N-TERMINAL DOMAIN.

A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID SHOULDING DOMAIN.

A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID SHOULD DOMAIN.

A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID SHOULD FOMMILY.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and jet commercial
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       or send an email to licensewist-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the European Bioinformatics Institute. There are no restrictions on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation.
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Best Local Similarity

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                                                                              EMBL: AF110402: AAD24432.1:
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Mammalia; Eutheria; Cetartiodaetyla; Ruminantia; Peeora; Bozoidea;
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A DAA BURDENS LEMALE AND A STEERING WEREALD BURDING DEMAIN.

A DAA BURDENS LEMALE AND A STEERING STEERING DERIVING DEMAIN.
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15-JBL 1999 (Rel. 48, Created)
15-JBL 1999 (Rel. 48, Last sequence update)
16-071 2001 (Rel. 40, Last annotation update)
Estroden receptor beta (ER-beta).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DOMAIN DAMO
negative regular of estrogen action.";
                                                                                                                                                                                                                                                                                                                                                                                       "Cloning of a novel receptor expressed in rat prostate and evary.": Proc. Natl. Acad. Sci. U.S.A. 93:5925-5940(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SECULENCE OF 46:50 FROM N.A. (ISOFORM RETA 1) STRAIN SPRAGUE-PAWLEY: PISSUE-PLOSTATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rattus morvegious (Rat)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pfam; PF00104; hormone_ree; h. Pfam; PF00105; zi-(4; l.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro: 1PR000546; Hormone rec liq. InterPro: 1PR001628; zf-C4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HSSP: FOR472: IHCP.
                                        insertion in the ligand binding domain as a putative dominant
                                                                                                                              Marshimoto W., Kato W., Kawashima H.,
                                                                                                                                                                                                                        MEDIINE 98262932; PubMed 9600083;
                                                                                                                                                                                                                                                             SEQUENCE OF 46.530 FROM N.A. (ISOFORM BEIA-2). STRAIN WISTAR, TISSUE OVATY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gustafsson J. A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDIAND 96234066, Pehand Be50195;
Bulger Colling, Edwark E., Pelse Brikke M., Nilsson S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NCBI_Tax10-10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mammalia; Eutheria; Rodentia; Sciuroquathi; Muridae; Murinae; Rattus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TERE OF NRSA2 OR ERBETA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ESR2 RAT
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                                                                                     "A novel isotorm of rat estrogen receptor beta with 18 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           445 SOOQSMRLANIIMILISHERBASNKOMEBILINMKUKNEEPEEDILLIBMINAHTI. 457
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181 SCCCSMECANLLMILSHVERBASNKSMERLLNMKCKNVVPVYDILLIEMLNAHVI. 233
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SM00399; ZnF[C4;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5.27 AA;
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                                                                                                                                                                       asaki asaka Biji Saren Hiji Shimaya Biji
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              annotation update)
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Pred. No. 1
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PHOSPHORYLATION (BY SIMILARITY)
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HSSP: P04472: 1HcP.
110-01Flot IPF0-01846.
InterProc IPF0-01724: Strdbormone_receptor.
InterProc IPF0-01724: Strdbormone_receptor.
InterProc IPF0-0184: zt-C4.
Itam: PF0-0104; hormone_rece; l.
Ptam: PF0-0105; zt-C4.; l.
Itam: PF0-0105; zt-C4.; l.
Itam: PF0-0185; zt-C4.; l.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        use by non-profit institutes institute. There are no costrictions use by non-profit institutions as long as its content is in restitled and this statement is not removed. Usage by and for every outlities requires a license.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STABILIA ( 1994-1995) to the EMB /Assistak/1994 databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN SPRANGE-BAWLEY: HISSUE Brain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              estroach receptor beta expressed in normal rat tissues Endocrinology 189:1982-1992(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MENT SHANDEL TO STRAIN 
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Schmitted (NeW 1997) = 15 EMMETTERALL,TIPLACTRAGE.
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"Tissue specific responses to estroden, an explanation based on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        onlities requires a license agreement (See http://www.ish-sib-ch/angounce
or send an email to licensevisb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "identification of estroden receptor beta2, a functional variant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Petersen D.N., Ikaleevie G.T.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SECTEMBE OF 46-530 FROM N.A. (ISOFORMS BETA-1; BETA 2; DELTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SECTENCE FROM N.A. (IS FORM BEIA-2).
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                                                                                                                                                                                                                                                                                                                                                                                       EME.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "A novel splice variant of estrogen receptor beta found in rat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BELA 1, TETA 1, BELA 1, JEDIA 1, FEIA 2 AH, BLIA 2, JEDIA 3, AKÈ DE 10120 AT ALLERANTED LITLICIAN.

LESSE SPECIFICITY EXHESSED IN PROSTAIE, OVARY, LUNG, LIVER, KILNIY, PAI, BONE, RIAIN HITTERS AND TECTIA

LOMAIN, COMPOSIED OF THREE LOMAINS: A MODULATING M TERMINAL DOMAIN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FUNCTION: BIRES ESTEMBERS WITH AN AFTINITY SIMILAR TO THAT SEE RALPHA, AND ACTIVATES EXPRESSION OF PEROPETE SERVICEN ESTEMBENDENT BANNER. IS OFFICE RELEMBERS (EBE) IN AN ESTRUGEN DEFENDENT BANNER. IS OFFICE AND SET ALL DEFENDENT AND SET A
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SIMILARITY: HELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY
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SUBURIT: BINDS DNA AS A HUMODIMER. CAN FORM A HETERODIMER WITH ER-
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                                                                                                                                                                                                                                                                                                                                                                              AF042060: AAR97426.1; -. AF042061: AAR97427.1; -. AF161187; AAD47637.1; -.
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AF042058; AAB97424.1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AF042059; AAB97425.1; -.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12058; AAB97424.1; -.
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                                                                                                                                                                                                                                                      Gaughan J., Scobie G.:
Subwilled (NAV 1994) I. the IMBL/Aberbank/DDBJ databases.
Subwilled (NAV 1994) I. the IMBL/Aberbank/DDBJ databases.
FUNCTION: BINDS ESTROGENS WITH AN AFFINITY SIMILAR TO THAT OF
ER-ALDID, AND ACTIVATES EXPRESSION OF REPORTER GENES CONTAINING
ESTROGEN RESPONSE ELIMENTS (ERE) IN AN ESTROGEN REFEROUNT MANUAL
ESTROGEN RESPONSE ELIMENTS (ERE) IN AN ESTROGEN A HETERODIMER WITH I
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Zinc-tinger: Steroid-binding: Alternative splicing: Phosphorylation
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SMART: SM00399; ZnF_C4; 1.
                                                Mammalia; Eutheria; Primates; Platyrrhini; Callitrichidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Callithrix jaechus (Common marmoset)
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16-001-2001 (Rel. 40, Last annotation updat
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 VRILLESCWMEVIJMMGLMWRSTDHPGKLTFAPDLVIJDRDEGKCVEGTLETEDMIJJATTSRF 120
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SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY
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Best Local Similarity 91.4%; Pred. No. 3
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      Kaltzenellenbogen B.S.,
                                    FORTISHE EMBORYOU CLIEBLY LOGIC VALUE COURTERS., Choi Liv
                                                                                                                                                                                                                                                                                                WIRL HIXLD BEIN
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01 MAK *0* (Fel. 41, Ec.t repense update)
01 MAK 2002 (Ref. 41, Last annotation update)
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                                                                                                                                                                           STORENCE FROM N.A.
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InterPro: JPR001723; Strdhormone receptor
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EGMAIN, COMPOSED OF THESE BOMAINS. A MODILATER N TERMINAL BOMAIN,
A CHA BINCIES LOMAIN AND A C TERMINAL STENOID BINDERS SEMAIN,
SIMILARITY: HELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
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Thesa X., Cole R.N., Zaia J., Hart C.W.:
"Allering by "mily.caplation," [Resplact] lation of the marine extroper
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Moi. Endocrinol. 11:353-365(1997).
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16 TH 1799 (Ref. 05 Last sequence update)
01 MAR 2002 (Ref. 41, Last annotation update)
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                                                                                                                                                                 "Transcription and translation of estrogen receptor-beta in the male teperaductive tract of estrogen receptor alpha knock out and wild type
                                                                                                                                                                                                                                                                                                                                                                                     MEDITINE 98348389; PubMed 9685228;
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Ederpotas Metaroas Chordatas Craniatas Vertebratas Enteleostomi
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                                        ER-ALTHA, AND ACTIVATES EXPRESSION OF REPORTER GENES CONTAINING RATHWATEN HAS MADE LILLMENTS (ERE) IN AN ESTROGEN DEFENDENT MANNER. SUBTINITIE BINDS DNA AS A HOMODIMER. CAN FORM A HETERODIMER WITH ER-
ALPHA.
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EMBL: AF067422; AAC17919.1;
EMBL: AF063853; AAC16656.1;
HSSP; P03372; THCP.
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Receptor: Transcription regulation: DNA-binding: Nuclear protein:
Zinc finger: Steroid binding, Alternative splicing: Glycoprotein:
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Endocrinology 140:463-4643(1999).

PURCTION: RENDER INCREMENTS WITH AN AFFINITY SIMILAR TO THAT OF KE ALPHA, AND ACTIVATES EXPRESSION OF REPORTER GENES CONTAINING ESTROCEN RESPONSE ELEMENTS (ENG.) IN AN EXTROCEN DETERDING MARKER.
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"Androgen receptor, estrogen receptor alpha, and estrogen receptor
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KIRCHE SERTLEFOTTY: BRAIN, ETHILIARY, SKELETAL MUSCLE, LIVER,
KIRCHES STENDALY, INTESTINE, AND SVAKY.

ROMAIN: COMPOSED OF THREE BUMAIRE, A MODULATURE B TERMINAL DEMAIN.
A DRA CANAGA DAMAIN AND A TERMINAL CLECTE RUBGIRE DAMAIR.
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Zine finger: Steroid binding
                                                                                                                                                                                       This SWISS PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for communicial
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Shooki M., Mishoo S., Nakabayashi O.;
Shimitroi (GPS 1990) to the PMBL/Seobank/DHBJ databases.
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11 - PUNCTION: BINDS ECTROCHS WITH AN APPINITY SIMILAR TO THAT OF
ENCALPHA, AND ACTIVATES EXPRESSION OF REPORTER GINES CONTAINING
ESTROJEN RESERVEY FIRMINIS (ERE) IN AN ESTROGEN-DEPENDENT MANNER.
ESTROJEN FORMES DNA AS A HOMODIMEN, CAN FORM A HELERODIMEN WITH EN
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FAINIS: EKOOO47: SIROIDEINGEK
SMARI: SMAO4-0) HOLLI: 1.
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16-001-2001 (Rel. 40, Last sequence update)
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                                                                                                                                                                                                                                                                                                                                                                               Cotainix cotuinix japonica (Japanese quail).
Eukaryoti- Motaios- Oboodats- Oranisti- Vertobrats, Eutologotomi
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PROSTEE: PSOOURT: NUCLEAR_RECEPTOR;
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Pram: PF00105: zf-C4; 1.
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InterPro: IPkoc1628; Zt C4.
                                                                                                    avian brain.";
                                                                                                                    Takayo B., Poidart A., Grisar T., Balthazart J.;
"Partial clouing and distribution of estrogen receptor beta in the
                                                                                                                                                       MEDILINE 98430913; PubMed 9760113;
                                                                                                                                                                         FISSUE Testis:
                                                                                                                                                                                        SEQUENCE OF 141-286 FROM N.A.
                                                                                                                                                                                                                           Submitted (SEP-1998) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                         "Sequence and neurognatomical distribution of estrogen receptor beta
in the quali brain.":
                                                                                                                                                                                                                                                                                              SECUENCE FROM N.A.
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-1- IISSUE SPECIFICITY: A HIGH EXPRESSION IS SEEN IN THE TELENCEPHALON, DIENCEPHALON, PUTUITARY, TESTIS AND K
                  Carassius auratus (Goldfish).
Eukaryota, Metasoa, Chandila, Graniata; Peterborata; E
Actinopterymii, Nepterymii, Feleostei, Futeleostei;
Cypriniformes; Cyprinidae; Carassius.
                                                                                              16-00T-2001 (Rel. 40, Created)
16-00T-2001 (Rel. 40, Last sequence update)
16-00T-2001 (Rel. 40, Last annotation update)
Estrogen receptor beta-2 (ER-beta-2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    use by non-profit institutions as long as its cont
modified and this statement is not removed. Usage by
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NCBI_TaxID: 7957;
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Prints: PR00105; zf-C4; 2.
PRINTS: PR00047; STROIDFINGER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL; AF045149; AAC36463.2;
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InterPro: IPR001628; z1 C4.
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ESK2_ANGJA STANDARD; P G13012; 16-001-2001 (Ref. 40, Created) 16-001-2001 (Ref. 40, Last segu 16-001-2001 (Ref. 40, Last anno

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Nesst Local Simulatity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  modified and this statement is not removed.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWICS PROFERITY is copyright. It is produced through a collaboration between the Swiss Institute of Ricintormatics and the BMBL outstation
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Miochim. Biophys. Acta 1490:145 152(2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "obNA cloning and expression of a newel estrogen receptor beta-subtype
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MIDLINE 20246 001. PubMed 15786629;
MarClH., bong K.W., Yu K.L.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRINTS: PRODUCTS: STRUIDENWERER
PRINTS: PRODUCTS: STRUIDENWERER
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Plans PE00105; zf C4; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBLO ARTESTACE, AARTSTEEL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InterPro: IPROUT628; Zt C4.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Inharbro: 19k00056; Normone necliq
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                                                                                                                               4.6 SEPTIMENT AND THE PROPERTY OF THE PROPERTY
486 LSSHOOSTRIAHILMILSHIPHISNKGTEHLSTMKRKNVVLLYDIJLEMIDAN 538
                                                                 13. HVRTBGTTTTTAAJAANA, SMRTTHTINGSREVARIAHETTINTINVIAMSÕÕÕSELL 62.1
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A JANA BURGHOU JOHALN AND A THEMENAL STREET BOKALD BELTWOOD OF THEMENAL STREET BOKALD BELTWOOD OF THEMENAL STREET BOKALD BELTWOOD OF THE BOKALD.

A JANA BURGHOUS ON THE STREET BOKALD AS WELL AS IN THE LIVER.

A JANA BURGHOUS ON THE STREET TO THE WELLAKE BOKWONE RECUETTORS FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ESTROMEN KISTS WAS ELEMENTS (EKI) IN AN ISSTRUMEN DEFENDENT MANNER. STHRINTS: BINES DNA AS A BEWERLINGER. CAN FORM A HETERODIMER WITH ER
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                                                                                                                                                                                                        ERECEL DESERVE VEAMELLINES MY PLYTATE COADS SEX LAHELINAVEDAL VWY LAKSGE 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  tinger: Steroid binding.
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                                    GMOCK99,
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70.4%; Fred. No. 9.36/70;
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60 QVRILESCWMEVLMMGLMWRSIDHRGKLIFARDLVIJDRDEGKCVEGILEIFDMIJATISK 119

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                                                                  Matches 162;
                                                                                              Query Match
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NTVMOCI
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SMART: SMOO399; ZnF_C
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modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Molecular cloning and characterization of Japanese eel estrogen receptor clons,":
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Anquilla japonica (Japanese eel).
Bukaryota, Metazoa: Chordata; Craniata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ESK2 OR NR3A2
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                                                                                                                                                                                                                                                                                                                                   PRINTS; PRO0398; STROHORMONER. PRINTS; PRO0047; STROHDFINGER.
                                                                                                                                                                                                                                                                                                                                                                    Ptam, PE00104, hormone_rec; l. Ptam; PE00105; z1-C4; l.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       HGGP, F03372; 1HCP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the European Bioinformatics Institute. There are no restrictions on
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDITINE-96386022; PubMcd 8793852;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID 7937;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Actinoptorygii, Respectygii; Teleostei; Anquillitormes; Anquilloidei;
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                                                                                                                                                                                                                                                  7 1mc-1 mqet;
                                                                                                                                                                                                                                                                Receptor: Transcription regulation; DNA-binding; Nuclear protein;
                                                                                                                                                                                                                                                                                  PROSITE: PS00031; NUCLEAR_RECEPTOR;
                                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro: IPR000536; Hormone_rec_liq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL; ABOU3456; BAA19851.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     or send an email to license isb sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro; IPR001723; Strdhormone_receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entities requires a license agreement (See http://www.lab.sib.ch/anaoane/
                                                                                                                                                                                                                                                                                                                                                                                                      InterPro: 1PR001628; 21-04.
295 LINRITEAEPPETYLMKELKKPFTEDSMMMSLINLAUKELVLMISWAKKTPGEVELDLSD 354
                               1 LVLTLLEAEPPHV+LISRPSAPFTEASMMMSLTKLADKELVHM1SWAKKTPGFVELSLFD-59
                                                                                P. W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FUNCTION: HIMSE EXTROGRAD WITH AN APTIHITY SIMILAR TO THAI OF REALPHA. AND ACTIVATIES EXPRESSION OF REPRESENCE GENES CONTAINING EXTROGRAD RESISTANCE LILIMBURG (1985) IN AN EXTROGRAD DIDINIBER MANNER. SUBJUNIT: BINDS DNA AS A HOMODIMER. CAN FORM A HETERODIMER WITH ER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING NOTERMINAL FOMAIN.
A LHA BERBEIRS LOMAIN AND A COTEMBINAL STEEDED BENGERS FAMILY.
SIMILARLIY: HELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SUBCELLULAR LOCATION: Nuclear.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NES SUBFAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INDUCTION: BY 17-BETA-ESTRADIOL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cell. Endocrinol, 119:37-45(1996)
                                                                                Similarity
                                                                                                                                                   237
672 AA:
                                                                 Conservative
                                                                                                                                                                                                 15
:7:
171
                                                                                                                                                                                                                                                  steroid-binding
                                                                                                                                                                                 191
231
                                                                                                                                                                                                                                    170
                                                                             70.3%; Score 830; DB 1; 68.5%; Pred, No. 1.3e-69;
                                                                                                                                                   - MM 00 12 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        institutions as long as its content
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               33: Mismatches
                                                                                                                                                   STEROID BINDING.
5 906401D8E39ED400 CRC64;
                                                                                                                                                                                 HOGLLAN MATERIAK TYPE. C4-TYPE. C4-TYPE.
                                                                                                                                                                                                                                    MODULATING
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                                                                  (8) Indels
                                                                                                Length 573;
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den. Comp. Endocrinol. 118:139-149(2009).
-1- FUNCTION. BINDS ESTROGENS WITH AN APPENDITY SIMILAR TO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ictulurus punctatus (Channel maffish)
Eukaryota: Metazoa: Chordata: Craniata:
Actinopterygii. Neopterygii. Teleostei.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-OCT-2001 (Rel. 40, Last sequence update) 16-OCT-2001 (Rel. 40, Last annotation updat Estrogen receptor 5-ta (FE-tela).
                                                                                                                                                                                                                                      Plam; PF00104; hormone_rec; 1. prim; probins, at c4, i
                                                                                                                                                                                                                                                                                                                                                                                                   use by non-profit institutions as long as its obtaint modified and this statement is not removed. Usage by an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Phylodenetic sequence analysis, recombinant expression, and tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Densmore L.D.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDIINE 20218982, PubMed 10753576,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_[axID-7998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Siluriformes; Ictaluridae; Ictalurus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ESR2 OR NR3A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Q9IAKI;
                    DOMAIN
                                       SH_FING
                                                     ZN_FING
                                                                          DITA_FIRE
                                                                                           NIVE
                                                                                                          Zinc-finger; Steroid-binding.
                                                                                                                         EkoalTE, Egocott, Wirtham_Receptrop, 1.
Rosspicor: Transcription regulation; DNA binding: Nuclear protein.
                                                                                                                                                                 SMARL
                                                                                                                                                                                      SMART.
                                                                                                                                                                                                   PRINTS; PRO0398; STRDHORMONER PRINTS; PRO0047; STROIDFINGER
                                                                                                                                                                                                                                                                        InterPro: IPR001723; Strdhormone_receptor
InterPro: IPR001628; zf-C4.
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                                                                                                                                                                                                                                                                                                                               EMHL: AF185568; AAF63157.1; -
                                                                                                                                                                                                                                                                                                                                                                 or send an email to licensedisb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                entities requires a license agree
                                                                                                                                                                                                                                                                                                                                                                                                                                      the European Bioinformatics Institute.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       This SWISS-PROT entry is copyright of is produced through a collaboration between the Swiss institute of Bioinformatics and the EMBL outstation -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        . Comp. Endocrinol. 118:139-149(2003).

FUNCTION. BINDS ESTROSENS WITH AN APPINITY SIMILAR TO THAT OF ER-ALPHA, AND ACTIVATES EXPRESSION OF REPORTER GENES CONTAINING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ALPHA (BY SIMILARITY).

SUBSCELULAR LOCATION. Newlear.

TISSUE SPECIFICITY: OVARY AND TESTIS.

DOMAIN: COMPASSED OF THERE DOMAINS: A MODULATING NOTERMINAL DOMAIN.
A DHA BINDING DOMAIN AND A COTERMINAL STEPOID FRINDING DOMAIN.
SIMILARITY: BELONGS TO THE NUCLIFIAR HORMONE RECEPTORS FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MES SUBPAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ESTROGEN RESPONSE ELEMENTS (ERE) IN AN ESTROGEN-DEPENDENT MANNER. SUBUNIT: BINDS DNA AS A HOMODIMER. CAN FORM A HETERODIMER WITH EP-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ISSCOCEMBLANILLMILERVEHASNKOMEHLLNMKCKNVVPVYDILLEMINAHVI 233
                                                                                                                                            SWOOXGA: ZDE_C4;
P. PSOCOXI, NUCLES
                                                                                                                                                                                  SMOOTSO: Hall:
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197
227
575 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Chang X., Tangenau D., Patino R., Maule A.G
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1815
1811
575
   63967 MW
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                    STEROID BINDING
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                                                                          NUCLEAS RECEFIOR TYPE
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                                                                                                                                                                                                                                                                                                                                                                                moved. Usage by and for commercial (Str hitp://www.ish.sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                      There are no restrictions on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Euteleustei, Ostariophysi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Vertebrata; Euteleostomi;
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A COUNTY AND UNION OF THE PROPERTY AND COUNTY AND COUN
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Best Local Similarity
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Substited (APECISAR) to the PMPL/CORRIDK/PDRT databases.

- I. FUNCTION: BINDS ESTROGENS WITH AN APPINITY SIMILAR TO THAT OF
ER ALPHA, AND ACTIVATES EXPRESSION OF REPRETER ESTROGEN CORRESTED IN AN ESTROGEN-DEPENDENT MANNER.

ESTROGEN RESPONSE ELEMENTS (RED) IN AN ESTROGEN-DEPENDENT MANNER.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Carassius durares (Coloria);
Eukaryola, Metazoa; Chordata; Craniata; Vertebrata; Buceroscomo,
Antinortervail, Nospter<sub>r</sub>ail, Telegatei, Euteleoatei; Ostariophysi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Estrogen receptor beta-1 (ER-beta-1). Carassius auratus (Goldfish).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16 OCT 2001 (Pol. 40, Created)
16 OCT 2001 (Rel. 40, Last sequence update)
16-001-2001 (Pol. 40, Tast annotation update)
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                                                                                                                                                                                                Pfam; PF00104; hormone_rec; 1.
Pfam; PF00105; zf-C4; 1.
PEINIS, PE00047; SIBOIDEINGER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HSSP; P03372;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMPI; AF061269; AAD26921.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the European Bioinformatics Institute. There are no restrictions on use by non-profil institutions as long as its content is in no
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
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"Molecular cloning of an estrogen receptor bota subtypo from goldfish
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TISSUE-Liver;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
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Receptor, Transon iption regulation, ENA binding, Nuclear proteins
                                                                                             SMART; SM00430; HOLI; 1.
SMART, SM00399; Znf_C4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     or send an email to licensewish-sib.ch).
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-1- COMAIN COMPOSED OF THREE DOMAINS: A MODULATING E TERMINAL HOMAIN.
A DNA-PINDING FOMAIN AND A C TERMINAL STEWOID-BINDING DOMAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                Interpro, IPR000536,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              474 ISTOOOSARLAHIIMILSHIRIILSNKGMEHISSMKRKNVVIIYDLLLEMLDANM 527
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    354 QVQLLECCWLEVIMIGIMWESTDHEGKLIFSLDIKINFDEGNCVERIMETEDMITAKSSR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 LVLTLLEAEPPHVLISRP-SAPFTEASMMMSLTKLADKELVHMISWAKKIPGFVELSLFD 59
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                                           FS00031; NUCLEAR_RECEPTOR; 1.
                                                                                                                                                                                                                                                                                                                                                               TPR001628; Zf-C4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RELIGIOUS TO THE NUCLEAR HORMONE RECEPTORS FAMILY
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70.1%; Pred. No. 5.9e-69;
Matine 36; Mismatches 32
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                                                                                                                                 the European Bioinformatics institute. There are no restrictions on use by non-profit institutions as long as its content is in no modified and this statement is not removed. Usage by and for commer
                                                                                                                                                                                                                                                                                                                                                                                                                                  Submitted (JHL-2009) to the EMBL/Genkank/PDBG databases I PUNCTION: BINDS ESTROGENS WITH AN ADDITION.
                                                       EMBL: ALZBORRS: CACO6714..;
                                                                                                           entities requires a license agreement (see http://www.isb-sib.ch/announce/
                                                                                                                                                                                           This SWISS PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Molecular cloning of an estrogen receptor beta subtype from rainbow
trent.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bango M., Ackermann G., Fent K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NºBI TaxID B022;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           omeorhynchus mykiss (Rainbow trout) (Salmo gairdneri).
Eukarystu; Metazoa; Chordata; Craniata; Vertebrata; Enteleostomi;
Artinopterygii; Neopterygii; Teleostei; Enteleostei;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 VEAN NO 7853
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Estroden receptor beta (ER beta).
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16 of 2001 (Rel. 40, last sequence update)
16 of 2001 (Rel. 40, last annotation update)
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InterProg (PR001723) Strdbeamoge receptor
InterProg (PR001628) zf (%)
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                                   InterPro: IPR000536; Hormone recilia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CEQUENCE FROM N.A.
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                                                                                            send an email to licenserish sib.ch)
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ER ALPHA. AND ACTIVATES EXPRESSION OF REPORTER GENES CONTAINING
ESTROGEN RESPONDE HIMMINES (IEC) IN AN ESTROGEN DEPENDENT MANNER
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66.8k: Pred, No. like 68;
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DOMAIN
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"TWO ESTROAGE INVESTIGATE OF REPRESENTATION OF CONTROL O
                               This SWISS-PROT entry is copyright. It is produced through a collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostoi; Euteleostoi; Neoteleostoi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sparus aurata (Gilthead sea bream)
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16 CCT 2001 (Rel. 40, Last sequals of 2001 (Rel. 40, Last annotation)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRINTS: PRODUCTS: STROHORMSHER.
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Ptam; PE00105; 2t C4; 1.
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NCH | TaxID 8175;
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                                                                                                                                                          SUBSELLIBAR LOCATION: NUCLEAL:

SUBSELLIBAR LOCATION: NUCLEAL:

A CHAR BINGER; LEWALN AND A C TERMINAL STEROID BINDING DOMAIN

SIMILARITY: RELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
                                                                                                                                                                                                                                                                                                                                       SUBUNIT: BINDS DNA AS A HOMODIMER, CAN FORM A HETERODIMER WITH EKALPHA (BY SIMILAKITY).
                                                                                                                          NES SUBFAMILY.
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66.7%;
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Pred. No. 1.1e-68;
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                                                                                                  Chang X.T., Kohayashi T., Todo T., Yoshiura Y., Ikenchi T., Kaliura M., Najahama Y., Ikenchi T., Kaliura M., Najahama Y., Ikenchi T., "china sehipunce of Ullapia type beta estroden receptor.";
Submitted ("T. 120) - 1. EMELTA-RALL THE J. L. S.
SUBMITTED T. HINDS ESTROGENS WITH AN AFFINITY SIMILAR TO THAI OF EX ALPHA. AND ACTIVATES EXPRESSION OF REPORTER GENES CONTAINING ESTROGEN FEDERACHE ELEMENTS (ERE) IN AN ESTROGEN DEPENDENT MANNES.
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16-00T-2001 (Ref. 40, List sequence updite)
16-00T-2001 (Ref. 40, Last annotation update)
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                                                           "! - SUBBRIGHT - BINDS DNA AS A HOMODIMER
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                                                                                                                                                                                                                                                                                                                                                            ### FSR2_MICUN STANDARD: PRF; 674 AA. p57781; 16-0CT-2001 (Rel. 40, Created) 16-0CT-2001 (Rel. 40, Last sequence update) 16-0CT-2001 (Rel. 40, Last annotation update)
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                                                                                                        Eukaryota: Metaroa: Chridata: Cramiata; Vertebrata: Estele-stomi: Actinopteryqii; Neopteryqii: Teleostei; Esteleostei; Neotele-ustei: Acanthomorpha: Acanthopteryqii: Percomorpha: Percitormes: Percoide:
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SMART: SM00399; ZnF_C4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRINTS: PRO0047; STROIDFINGER.
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                           Scidenidae, Micropogonias
NCBI_TaxID 29154;
                                                                                                                                                                                                                                           Micropogonias undulatus (Atlantic croaker).
                                                                                                                                                                                                                                                                                             ESR2 OR NR3A2
                                                                                                                                                                                                                                                                                                                                 Estrogen receptor beta (ER-beta).
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InterPro: 1PR001723; Strdhormone_receptor.
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A LOAD DE URCHA COMAIN AND A COMMENCIA, STERRODOBLINGUE DOMAIN.

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Troc. Natl. Acad. Sci. U.S.A. 97:10751 P0756(2000).

PURPING BIND ESTREADMEN WITH AN APPINDITY SIMILAR TO THAT OF
ER ALITHA, AND ACTIVATES EXPRESSION OF REPORTER GENES CONTAINING
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LOWALIN: COMPESSO OF THREE DOMAINS A MORBILATING N TERMINAL ROMAIN.

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SIMILARTY: BELDINGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
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                                                                                                                                                                                                                                                   Plan; PF00104; hormone_rec; 1.
Plan; PF00105; z1 C4; 1.
                                                                                                                                                                                                                                                                                                                          InterPro: IPR000536; Hormone_rec_liq
                                                                                                                                                                                                                                                                                                                                             EMBL: AF298182; AAG16712.1;
                                                                                                                                                                                                                                                                                                                                                                             or send an email to licensedisbesib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This SWISS PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Ricinformatics and the EMBC outstation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    reclassification of estroden receptors in teleosts.";
Proc. Natl. Acad. Sci. U.S.A. 97:10751-10756(2000).
-i- function: the effect of bormones and their receptors are involved in the reculation of Edwarfotto Gene expression and Affect cellular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hawkins M.B., Thornton J.W., Crews D., Skipper J.K., Dotte A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE 20461442; PubMed 11005855;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SECURINE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sciaenidae: Micropogonias.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Acanthomorpha; Acanthopteryqii; Percomorpha; Percitormes; Percoidei;
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                                                                                        DNA BIND
                                                                                                         DOMAIN
                                                                                                                                         Receptor:
                                                                                                                                                                              SMART; SM00399; ZnF_C4;
                                                                                                                                                                                               SMART: SMCO430; Holl:
                                                                                                                                                                                                                                                                                                     InterPro: IPRO01723;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Identification of a third distinct estrogen receptor and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A DNA BINDERN DOMAIN AND A CITERBINAL SIDEOID BINDING DOMAIN SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SUBUNIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NR < SUBFAMILY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES SUBUNIT: HOMODIMER (BY SIMILARITY).
                                                                                                                                                                                                                                                                                                                                                                                                 11.1.1
                                                                                                                                                                                                                                                                                       IPR001628; Z1 (74)
                                                                                                                                           Transcription regulation; DNA binding; Nuclear protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (Re-1.
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40, Last annotation update)
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234
62903 MW; D9954D2F740CCA5E CRC64;
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                 STEROID BINDING
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01-JAN-1988 (Bel. 05, Last sequence update)
16-901-2901 (Bel. 40, Last amnotation update)
Estrodem receptor (EE) (Estradiol receptor) (ER-alpha).
                                                                                                                                                                                                                                                                                                                                                                                            InterPro: IPROD1292: Oest_recep.
InterPro: IPROD1723: Strdhormone_receptor
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TRANSFAC: T00264;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This SWISS-PROJECTLY is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions to its use by non-profit institutions as long as its content is in no way
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PRINCE, PRODUKT, STR. IDEINGER
                                                                PRINIS: PROLEMB: STRUBORMENER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              or send an email to license isb-sib.ch).
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THE RECHIATION OF EURARMOTIC GENE EXPRESSION AND AFFECT CELLULAR
PROLIFERATION AND DITTENDITIATION IN TANGET TISSUES.
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MISCELLANDOUS: IN THE ABSENCE OF LIGARD, STEEFOLD HOWENERECEPTORS APP DIOPULAT TO BE MEANLY ASSOCIATED WITH MUCLEAR COMPONENTS; HORMONE BINDING GREATLY INCREASES RECEPTOR AFFINITY. THE HORMONE BINDING CREATLY INCREASES RECEPTOR AFFINITY. THE HORMONE RECEPTOR COMPLEX APPEARS TO RECOGNIZE DISCRETE DNA
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entities requires a license agreement (see http.//www

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15-JHL-1999 (Rel. 38, Created)
15 JUL 1999 (Rel. 38, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
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Zinc-ringer: Steroid-binding.
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SMART: SM00499; 2nF_C4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Zecobs E.C., Arnold A.P., Campadnoni A.L.;
"Zeto finch estregen receptor chart cloning and mena expression.":
J. Steroid Biochem. Mol. Biol. 59:135-145 (1996).
-i- bunchion: THE SIEROID HORMONES AND THEIR RECEPTORS ARE INVELVED IN 18: FECTIALLY B.G. FARYOTIC GENE EXPRESSION AND AFFECT CELLULAR
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ESRI OR NRIAL OR ESR.
Foephila entitata (Zebra finch) (Taeniopyqia quttata).
Eukaryota, Metazoa, Chordata: Oraniata: Vertebrata: Euteleostomi;
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-!- SHRUNIT: HINDS DNA AS A HOMODIMER. CAN FORM A HETERODIMER WITH ER BETA, (BY SIMILARITY).

1. SUBCELLULAR LOCATION: Nuclear.
-!- DOMAIN: COMPOSED OF THREE DOMAINS. A MODILATING N TERMINAL EMAIN.
A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-HINDING DOMAIN.
-!- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE:97163508; PubMed:9010328;
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Archosauria: Aves; Neoquathae; Passeriformes; Estrildidae;
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01 JUN 1994 (Ref. 2), Last sequence update)
15 o'll 2001 (Ref. 40) Last amotation update)
Extroden receptor (ER) (Extradiof receptor) (ER-alpha).
EXECUTE REPORT OF NEXALOR EXE.
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Mammalia: Entheria: Primates: Catarrhini; Hominidae: Homo.
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InterPro: IP8001292; cest_recep.
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H.350; 1993372; 1HCP.
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                                                                                                                                                                                                                                                                                                                                                                       NA. "
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Steene 8112, Siloa E., Waserlield M., Baker A., Host Y., Shine J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapions (Human)
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      Chambon P. /
                                                                                                                              MEDILINE B5145892; PubMod 3754034;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NOTE LINK OF STORY
                                                               Green S., Walter P., Kumar V., Krust A., Bornert J. M., Argos P.,
                                                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                               Schoode 231:1150 1154(1986)
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protter 0 | Federotta E., Castaquetta L., Vidali G.;
"Extrages receptor variant messenger kBA lacking exon 4 in estrogen-
responsive human breast cancer cell lines.";
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                                                                                                                                                                                                                                                     activation through phosphorylation of serincs 104 and 106 by the cyclin A CHK2 complex.":
J. Biol. Chem. 274:27206—22302(1999).
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<a href="mailto:kilona">kilona kilona kilona databases</a>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the human estrogen receptor.";
Mol. Endocrinol. 9:1041-1052(1995).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Schabert E.L., Lee M.K., Hewman B., Kind M.C.; Schabert E.L., Lee M.K., Hewman B., Kind M.C.; "Simple prefer die polymorphisms (SNNS) in the estroden receptor denominate breast cancer susceptibility.", "L. Sterold Biochem. Mol. Biol. 71:21–27(1999).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Nucleic Acids Res. 24.062-969(1996).
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                                                                                                                                                                                                                                                                                                                                                                                                         Rogatsky I., Trowbridge J.M., Garabedian M.J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                            PROSPHORYLATION AT SER-104 AND SER 106, AND MUTAGENESIS MEDITINE 99357754; PubMed 10428798;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MC:
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Nature 348:458-461(1990)
                       in eptor.";
                                                                                                         MEDLINE 91061891; PubMed 2247153;
Schwabe J.W.E., Nouhaus D., Rhodo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     human estrogen receptor
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                                                                  "Solution structure of the DNA binding domain of the oestroden
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Cell 75:567-578(1593).
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"Crystallographic comparison of the estrogen and progesterone
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PROFIFERATION AND DIFFERFULIATION IN TARGET TISSUES
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61 MAS-2000 (Rel. 41, Last sequence update)
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White B., Lees J.A., Needham M., Ham J., Parker
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entities requires a license agreement ('a lip
or send an email to license disb sib.ch).
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J. Steroid Riochem. Mol. Biol. 75:147-158(2000).
I FUNCTION: THE STEROID REMOGRES AND THEIR RECEPTORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MGD: MGT:1452467; Estl.
InterPro: IPRODOS 6; Hormone ree lig.
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                                                                                                                    UNISE VAC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Rockenkamp D., Jungblut P.W., Thole H.H.;
"The C-terminal half of the porcine estradiol receptor contains no
post-translational modification; determination of the primary
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01-NoV-1997 (Ref. 35, Last sequence update)
16-00T-2001 (Ref. 40, Last annotation update)
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-!- SUBUNIT: BINUS DNA AS A BOMODIMER. CAN FORM A HETERODIMER WITH ER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         structure.";
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                    BEIA (BY SIMILARITY).

STRUELSTIAN ESCATION. RECTOR:
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A DRA HINDING LOMAIN AND A C TERMINAL STEROID BINDING LOMAIN.
FIM. PHOSPHORYLATED BY CYCLIN AZERZ (BY SIMILARITY).
MISCELLANDOUS. IN THE ARCHIVE OF LICAND. STEROID HORMONE RECEIVES.
ARE HORGHI TO HE WEAKLY ASSOCIATED WITH NECLEAR COMPONENTS:
                                                                                                                                                                                                                                                                                                                                                                                                                    FUNCTION: THE STEROID BORMONES AND THEIR RECEPTORS ARE INVOLVED IN
BERMORE BIRDING GREATLY INCREASES RETERED ACTINETY.
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Entheria; Cetartiodactyla; Suina; Suidac; Sus.
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L > M (IN REF. 2).
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/Filld CAR 0000187.
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interPro; IPR00U536; Hormone_rec_liq.
interPro; IPR00U526; Gest_recep.
InterPro; IPR001723; Strdhormone_receptor.
InterPro; IPR001628; 21-C4.
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Receptor: Transcription regulation, ENA binding, Nuclear
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SMART, SM00359; ZnF_C
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NUCLEAR RECEPTOR-TYPE
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     DNA_BIND
                                                                             DOMAIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota, Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Rattus norvegicus (Rat).
                                                                                                                                                                                  SMART: SMOC399, EnF_C4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PIR: S07379; S07379.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Koike S., Sakai M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NR3 SUBFAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Y00102; CAA68287.1; -. X61098; CAA43411.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    F03372; 1HCP.
                                                                                                                                                                                                        SM00430; HOLL;
190
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01 JAN-1988 (Fel. 36, Last sequence update)
16-0CT-2001 (Rel. 40, Last annotation update)
Estrogen receptor (FR) (Estradiol receptor) (ER-alpha).
ESRI OR NESAI OR ESP OR ESTR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TRANSPAC: T00258; ...
InterPro: IPP000536; ...
InterPro: IDP001536; ...
InterPro: IDP0015292; ...
InterPro: IPR001723; ...
InterPro: IPR001628; ...
InterPro: IPR001628; ...
InterPro: IPR001628; ...
InterPro: IPR001628; ...
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Submitted (JUN 1991) to the EMBL/MenBank/DDBJ databases.
-i- FUNCTION: THE STEWOID BEMMORES AND THELK METERIORS /
                                                                                                                          PROSITE: PS00031: NUCLEAR_RECEPTOR: 1.
Receptor: Transcription regulation; DNA-binding; Nuclear
Zine finger: Statoid-binding; Phosphorylation.
                                                                                                                                                                                                                                                                                                                                                                                                                                              Pfam; PF02154; Oest_recep; 1. Pfam; PF00105; 21-C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          entities requires a livense agreement (See http://www.or.send.an.email to licenserisbisib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way
                                                                                                                                                                                                                                                                                                                                                              PRINTS; PR00398; STROHORMONER. PRINTS; PR00047; STROHOFINGER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fram, FF00104; bormone_rec; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               modified and this statement is not removed.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nucleic Acids Res. 15:2499-2513(1987).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=87174780; PubMed=3031601;
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SCHECELLULATION: Nuclear.

SCHECELLULATION: Nuclear.

SCHECELLULATION: Nuclear.

DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TPRMINAL DOMAIN.

DOMAIN: COMPOSED OF THREE DOMAINAL STEROID-BINDING DOMAIN.

A TRA-BINDING DOMAIN AND A C TERMINAL STEROID-BINDING DOMAIN.

PROSPHORYLATE: BY CYCLIN A/CDK2 (BY SIMILARITY).

MISCELLANDEURS: IN THE ABSENCE OF LICAND, STEROID BOMMONE RECEPTORS ARE THOUGHT TO BE WEAKLY ASSOCIATED WITH NUCLEAR COMPONENTS;

HORMONE BINDING CREATLY INVERSASES RECEPTOR AFFINITY. THE

HORMONE BINDING CREATLY INVERSASES TO REVENUES DISSIBLE DNA

SEQUENCES UNSTREAM OF TEANSCELETIONAL STAFT SITES.
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NUCLEAR RECEPTOR-TYPE. C4-TYPE.
                                                                                         MODULATING
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16-047-2001 (Rel. 40, Created)
16-047-2001 (Rel. 40, Last sequence update)
16-047-2001 (Rel. 40, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Submitted (SEP-1999) to the EMBL/CenBank/DDBJ databases
                                                                                                                                                                               SEQUENCE OF 98-291 FROM N.A. Lones J.E., Carpenter C.D., Lobbers J.E., Petersen S.L., Wade G.N., "Return of fordesis after food deprivation and refeeding in Syrian
                                                                                                                                                                                                                                                 "Homester estroden receptor cDWA, cloning and mRNA expression.", J. Steroid Biochem, Mol. Biol. 72;47{\pm}9 (2000).
                                                                                                                                                                                                                                                                                   Bhot H.K., Vadqama J.V.;
                                                                                                                                                                                                                                                                                                 METALINE 20197987, INDMED 10731687,
                                                                                                                                                                                                                                                                                                                                                                   NOBL TaxID 10036;
                                                                                                                                                                                                                                                                                                                                                                                    Messorries dius
                                                                                                                                                                                                                                                                                                                                                                                              Mesocriestus auratus (Golden hamster).
Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Enteleostomi;
Mammadia: Eutheria: Rodentia: Sciuroquathi: Muridae; Cricetinae;
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                                                                                                                                                                                                                                                                                                                   THESSUE BLOODING;
                                                                                                                                                                                                                                                                                                                                  SECUENCE FROM N.A.
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SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY
                    HRUTA (HY STRIDAKITY).
SHROELJULAR EREATION: NICTORE.
DEMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,
A DNA DEMETRE DOMAIN AND A C TERMINAL STEROLD BENDING DOMAIN.
                                                                                      STRUBETT BEINGS THA AS A HOMODIMER. CAN FORM A HETERODIMER WITH
                                                                                                                                       FUNCTION. THE STEROID BORMONES AND THEIR SECRETORS ARE INVOLVED IN
                                                                                                                        THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       QVHIJJBCAMIJETIMTGLUWKSMEHRGKLIJEARNIJIJDRNQGKGVBGMVBTFDMLLATSSR 439
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59.6%; Pred. No. 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             595 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     41; Indels
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RESULT
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ENTING
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Receptor: Transcription regulation: DNA binding: Nuclear protein:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRINTS; PRO0398; STRDHORMONER. PRINTS; PRO0047; STROIDFINGER.
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Pfam; PF00105; zf C4; 1.
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or send an email to licensewisb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOD_RES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Plan, PF00104; hormone_rec; 1.
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                                         495 LLLQQQBKKLAQLLILLSIG KHMSNNGMEHBYNMKGNNVVPFYDGLLEMIDAHRI. 549
                                                                                                   435 FEMMULQUBERVOLESTILLNSGVYTELSSSLESILEBRUHHRVIJBLISCILHUMARAG
                                                                     180 FREEKROHKEYLOVKAMICLINSSMYTLVTAT (QDAOSSKKLAHILINAVITALVWVTAKSG) 178
                                                                                                                                                              375 QVBLLECAWLETLMTGLTWRSMEHPGKLLFAPNLLLDRNQGKCVEGMVETFDMLLATSAR
                                                                                                                                                                                                                        315 MVSALLDAEPPLIYSEYDPSKFESEASMMGLLTNLADRELVHMINWAKRVPGEGDLNLHD 374
                                                                                                                                                                                         60 QVRILESCWMEVLMMGLMWRSIDHPGKLIFAPDLVLDRDEGKCVEGILEIFDMLLAITSR 119
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QL -> PF (IN REF.
S > F (IN REF. 2
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Actinopteryqii; Neopteryqii; Teleostei; Enteleostei; Neoteleostei;
Acanthamospha: Acanthoptoryqii: Percamospha: Corcibatos; Promilei
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Hawkins M.E. Thorroom ! W., Crows D., Ekipper J.K., Dotto A
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Forepror: Transcription regulation; DNA-binding; Nuclear protein;
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PRINTS: PRODUCT; STROIDFINGER.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SECUENCE FROM N.A.
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SUBCELLULAR LUCATION: NUCLCAL.

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63.5%; Prod No 8.5e-62;
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SAPETEASMMMSLTKLADKELVHMISWAKKIPSEVELSLED 59
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C4-TYPE.
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Submitted (%T1-1096) to the EMBL/Goodback/DDBJ databases.
-1- FUNCIION: THE SIEKOID REGMONES AND THEIR RECEPTORS ARE INVOLVED IN THE RECULATION OF EUKARYCTIC CENE EXPRESSION AND APPECT CELLULAR PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.
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Erkarysta, Motacca, Churdata: Chandata: Vertebrata: Enteleostomic
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16-exT-2001 (Bel. 40, Last annotation update)
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DNA_BIND
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InterPro: IPR001232. Strdbormone_receptor.
InterPro: IPR001628: zf C4.
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SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
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NUCLEAR RECEPTOR-TYPE
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Dost Local Similarity 62.7%; Pred. No. 4.4e-61;
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16 oct 2001 (Ref. 40, created)
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                                                                                                                                                         the European Bioinformatics Institute. There are no restrictions on use by non-profit institutions as long as its content is in no modified and this statement is not removed. Usage by and for commen
IntemPro; 1PR001628; zf-C4
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                                                                                                                                       modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.ish-sib-ch/announce/
                                                                                                                                                                                                                 This SWISS PROFentry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation
                                                                                                                                                                                                                                                                                                                                                                                                                                              Submitted (JUL 1999) to the EMBL/GenBank/DORI databases.
FINETION: THE STEROTH HORMONES AND THEIR RECEPTORS ARE INVOLVED IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Cloning of the reptilian Anolis carolinensis estrogen receptor liquid binding domain.":
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matthews J.B., Wade J., Zacharewski T.R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NOBL TaxID 28377;
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Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi:
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                                                                                                                       or send an email to license isb sib.ch).
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STEROID-BINDING (BY SIMILARITY).
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Receptor: Transcription regulation: DNA-binding: Nuclear protein:
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SUMMARIES

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Fred. No. 3.36 101;
B; Mismatches 6; Indels 1;
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7.E
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Overy Match 80.7%; Score 953; DB 6; Length 486; Best Local Similarity 88.6%; Pred. No. 1.5e 85;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches 201; Conservative
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01 DEC-2001 (TrEMBLEEL 19, Created)
01-DEC-2001 (TrEMBLEEL 19, Last sequence update)
01 DEC-2001 (TrEMBLEEL 19, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Scobie G.A., Wilson J.A., Millar M.R., Macpherson S., Saunders P.L.:
"The controded recipies in both old and New World primates.";
a wide range of tissues in both old and New World primates.";
outmilled (2008 a 97) to the LMMS/Nautenby/DDBJ databases.
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Mammalia: Entheria: Primates: Catarrhini: Cercupithocidae:
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01 DEC.1001 (TERMELTOL 19, Created)
01 DEC.2001 (TERMELTOL 19, Last sequence update)
01-DEC.2001 (TERMELTOL 19, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Enkaryola; Metazoa; Chordala; Cramiala; Vertebrala; Enteleostomi;
Mammalla; Entheria; Primates; Platyrrhini; Callitrichidae; Callithrix
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NCEL_TaxID 9540;
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of DEE Look (FERMHIRE), by Last sequence update)
of DEE Look (FERMHIRE), 19, Last annotation update)
ESEGGEN MICEEPISK BEIA.
Squains acunthias (Spiny doutish).
EUROPYTE Motacoa: (Spiny doutish).
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Bukaryota: Metacoa: Chordata: Craniata: Vertebrata; Buteleostomi;
Actinopterymii: Neopterymii; Teleostoi: Buteleostei; Ostariophysi:
                                                                                                                                                                                                                                                                                                                   01 BEC-2001 (TEMBLEEL 19, Greated)
01-1980-2001 (TEMBLEEL 19, Last Sequence update)
.390-2001 (TEMBLEEL 19, Last annotation update)
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"Molecular "Lating and Stage-Related Expression of an Estrogen Receptor Beta Subtype forling Spermatogenesis in the Doglish Shark (Squatus Acanthias) Testis.";
Sabmitted (MAY 1993) to the EMPT. Solbark TIBL databases
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Cyprimitormes; Cyprimidae; Lumio.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOCOSMBLANLLMILLSHVRHASNKOMEHIL 210
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  542 AA: 612H5 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      49; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            Q98SM8;
01-JNN-2001 (TrEMBLIel. 17, Created)
01-JNN-2001 (TrEMBLiel. 17, Last sequence update)
01-BEN-2001 (TrEMBLiel. 19, Last annotation update)
ESTROGEN RECEPTOR CAMMA (FRAGMENT).
Brachydanio rerio (Schratish) (Sebra danio).
Enkaryota: Metazoa: Chordata: Craniata: Petalecata: Enteleostomi.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Binding characteristics, transactivation properties and evental expression of three extremen receptor subtypes in retralish.": submitted (sep-2001) to the EMML/ComPank/PNRJ databases.

EMMLJ AJ414566; CAC98448.1: -
                                                                                                                                                                                                                       EMBL: AE349413: AAK16741.1; <. HSSP, F63372, 1HCQ.
                                                                                                                                                                                                                                                                          "Estrogen receptor chas in zebrafish.";
Substitud (FER 2011) L. the EMBL/Sedkark/18401 databases.
-!- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
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                 Zinc-tinger.
NON_TER
                                                                     SMART: SM00430; HOLL; 1.
SMART: SM00399; ZnF_C4; 1.
                                                                                                                            Pfam; PF00104; hormone_rec; 1. Pfam; PF00105; z1-C4; 1.
                                                                                                                                                               InterPro: IPR000536; Hormone_ree_liq.
InterPro: IPR001723; StrdBalmone_ree_
InterPro: IPR001628; zf-d4.
                                                                                                                                                                                                                                                                                                                                                                                                                          Actinopteryali; Neopteryali; Teleostel; Eutoleostel; ostariophysi; Cyprinitormes; Cyprinidae; Danio.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID 7955;
SEQUENCE
                                                   DNA-binding; Nuclear protein: Receptor; Transcription regulation;
                                                                                                            PRINTS; PROURSB; STRDBORMONER
                                                                                                                                                                                                                                                                                                                                   Akten B., Kishida M.,
                                                                                                                                                                                                                                                                                                                                                     TISSUE LIVER;
                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                            NCB1_Tax1D: 7955;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pakdel F.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      179 ISSQQQGMREANLEMELSHVRHASNKGMEELENMKCKNVVPVYDLLLEMENAH 231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        420 malladónada völkámi alkánnéssa a gihadvéskákvanáldsvítaka vettski
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   360 QVHLLECOWLDILMIALMWRSVDHPOKLIFIPPLKI.NREEGNCVEGIMEIFDMILAITSK 419
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LSSQQQSTREAHLIMEESHIEHESNKOTEHESNMKKKNVVILIVOLLILEMIDAN 5×2
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391 AA:
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    Strdhalman_receptor

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                                                                                                                                                                                                                                                                                                                                   Callard G.V.;
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                                                                                                                                                                                                                                                          THE MULLEAR BURNOUS RECEPTORS FAMILY
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45E981266A815E91 CRC64
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Obery Match 71.0 Best Local Similarity 70.0 Matches 163; Conservative

37;

Mismatches

71.0%; Score 838; DB 13; 70.0%; Pred. No. 2.5e 74;

Length (91;

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Ac. 64
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Enkaryota: Metazoa; Chordata; Caniata; Vertebrata; Enteleostomi;
Actinopterynii: Neoplerynii; Teleostei; Enteleostei; estariophysi;
Cyprimiformes; Cyprimidae; Bamio.
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of DBC 2001 (CrEMBLIEL, '5, Last sequence update)
of DBC 2001 (CrEMBLIEL, '5, Last annotation update)
                                           of DB* zoul (irBMpdrei, io, bast annotation update) ESTROTEN RETERIOR RETERIOR
                                                                                                                                                                       of JUN 2001 (TrEMBLIGHT, 17, Created)
of JUN 2001 (TrEMBLIGHT, 17, Last Sequence apdate)
                                                                                                                                                                                                                                                                                                   CAMBRAG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SECUENCE FROM N.A.
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Pred. No. 5.90 73;
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Best Local :
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                                   endometrial adenocarelnoma eell line.";
Submitted (APR 1891) to the EMBLOS derek, DURJ databases
EMBLI AYUSSSYS AAASZIOALI;
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Actimopteryali, Neopteryali; Teleostei: Enteleostei; Ostariophysi;
Cyprinitormes; Cyprinidae; Danio.
                                                                                                                                                                                                                                                                                                                                   01-DEC-2001 (TEMBLE). 19, Created)
c) ESC 2001 (TEMBLE). 19, List sequence update)
01-DEC-2001 (TEMBLE). 19, List annotation update
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SMART; SM00399; ZnF,C4; 1.
PROSTIE; PS00031; NEGLEAR_RECEPTOR; 1.
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EMBL: AF349414; AAK16742.1;
HSSP; P03372; IERR.
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School of Allik (2.1) to the EME, Georges, DHRI databases
(E. SUHCELLDIAK LOCATION: NUCLEAK (BY SIMILARTY)).
                                                                                       "Estrogen receptor alpha mRNA is stabilized by estradiol endometrial adenocarcinoma cell line.":
                                                                                                                                              TISSUE ENDOMETRIUM;
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                                                                                                                                                                                                                                                   Mammalia; Euthoria; Cotartiodactyla; kuminantia; Pocora; Bosoidea;
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                 Receptor
                                                                                                                                                                  SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         120 FRELEIMBERFFINERAMILLMSSM-YBLVTATJOANSSEBELAHLLNAVIDALVWVIAKSO 178
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SELUENCE 431 AA; 48694 MW; BAFB6CB88D7B1E99 CRC64;

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Fig. Pf00105; cest_recep; 1.
Fig. Pf00105; zt-c4; 1.
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Submitted (FFR 2011) to the PMRL/ZebRank/DDRJ databases.
-!- SUBMILLILAR LEAGLES, NUCLERR (AV SUBLIABLEY).
-!- SUBMILARITY- REPORTS TO THE NUCLEAR HORMORE RECEPTORS FAMILY.
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ESIPOJEM RECEPTS ATCHA
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InterPro: [PR00]723; Strdhormone_receptor
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Eukaryota; Metazoa: Chordata; Cranjata; Vertebrata: Euteleostemi;
Actinapteryaii: Neepteryaii: Teleostei, Euteleostei, Ostariaphysi
Cyprinitormes; Cyprinidae; Carassius.
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01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
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                                                                                                                                                                                                                                                                                                                            | 179 | ISSQQCMEGANGMENTSHVERKSRICHGHENCKRVVPVVDLJJEMINA 240
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Best Local Similarity
                                          Querry Match
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InterPro: IPP604626; 11-74.
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                                                                                                                                                                                                           $1319 MW; 019482332111F277 CRC64
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OF our L2000 (TERMITE). 15, Prested)
Of our L2000 (TERMITE). 15, Last sequence update)
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Bukaryota: Metazoa: Chordata: Craniala: Vertebrata: Hyperoartia:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID 7757;
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                                                                                                                                                                                                                  Micropterus salmoides (Laraemonth bass).
Preurgo ar Motazea, Chechara, Granfalta, Vertebrata: Entoleostomi:
Arth.ph.nyaff: Mocpteryaff: Ecleostef, Dateleostef, Bacteleostef,
Acanthomorphus Acanthopteryaff: Percomorpha; Percitormes: Percoidef;
Pentrarchidacz, Micropterus.
                                                                                                                                                                                                                                                                                                                        ol-MAK-2001 (TrEMBLrel. 16, Last sequence update)
ol-DEC-2001 (TrEMBLrel. 19, Last annotation updat
ESTROGEN REFERENCE SUBJECT (FRAGMENT).
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Brambydanio rorio (Zebratish) (Zebra danio).
Bukutyota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi;
                     Howman P.J., Saborattwood T.L., Denslow N.D.;
"Larqueworth Hass Estroagu Receptor Bubtype | Partial chwa Sequence.";
schmitted (Admeriment to the rhot Committee Step) database;
-!- SUMCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
-!- SUMCELLULAR LOCATION: NUCLEAR HORMONE RECEPTORS FAMILY.
-!- SUMICACION: BELOGOS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
ENMIL ARES NOCA: AGG44622.1; -.
                                                                                                                                                                                                       NOBI_IAXID 27706;
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Typrinitormes: Cyprinidae: Danio.
                                                                                                                                                                  SEQUENCE FROM N.A.
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InterPro: IPR000536; Mormone_rec_liq
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Ges 122: Conservation
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276
276 AA.
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58.7%; Prof No 50 52;
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71 VIMMOLMMESIDHPOKIJEAPHIVIJOKOBOKOVBOJI FIROMFLATISKEKRI KRIQHKEV 13a

39; Mismatches 24; Indels

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Best Local Similarity 57.6%; Pred. No. 5.1e 50;
Matches 121; Conservative 48; Mismatches 40
       Query Mate3.
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             046402:
01-JUN-1998 (TrEMBLrel. 06, Created)
01-JUN-1998 (TrEMBLrel. 06, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last amostation update)
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SEQUENCE
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InterPro: IPR001723; Strdhormone_receptor
Pfam: PF09104; hormone_rec; l.
PK1H13, PK00398, SIMDH-MM-MER.
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Piam: PF00105: zf:c4: 1.
PRINTS: PR00198: STROBERMINEK.
PRINTS: PR00197: STROBERMINER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hou S., Winters T.A.:
"Swine estrogen receptor alpha hormone binding domain, exon
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Submitted (BPV 1997) to the EMRL/GenBank/DDBJ databases EMBL, AF035775; AAH88509.1; -.
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4' 8%; score 517.5; DB 6; Length 159; 59.5%, Fred. No. 3.1e-43;
                                                                                                                                                                                                                                                                                                  18464 MW,
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5 93. Conservative
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b. DEC 2001 (FrEMBLIGE, 19, Last sequence update)
of DEC 2001 (FrEMBLIGE), 19, Last annotation update)
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                                               MEDITURE 21235489; PubMed 11437474;
Robinson Rechael M., Marchand etc. Exertiva H., Bardet Ett., Zelus D.
                                                                                                                                                                                                                                                                                           Actinopterygii; Neopterygii; Teleostei; Enteleostei; Ostariophysi;
Cyprintogmes; Cyprindae; Danio.
                                                                                                                                                                                                                                                                                                                                                                                          Brachydanio rerio (Zebratish) (Zebra danio).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ESTRUCISM REPORTED A BETA (TRACHER)
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93.0%; Fred, No. 5.66°40;
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01-MAR-2001 (TEMMETE). 16, Last sequence update)
01-52-2001 (TEMMETE). 15, Last annotation update
ESTROGEN RECEPIOR ALPHA.
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01-001-2000 (IFEMBLEEL 15, Last sequence update)
01-000-2001 (TREMBLEEL 19, Last annotation update)
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72.6%; Prod. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                47.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13; Mismatches 18; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. 40 (6)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 442;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 품.:
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                                                                                                                                                                                                                                            AA AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           87 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 6; Length 87;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 14; Length 200:
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                                              N.N.TER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      019309;
01-JAN-1978 (TrEMBLIFOL 05, Greated)
01-AUG-1978 (TrEMBLIFOL 07, Last sequence update)
01-2007 (TrEMBLIFOL 19, Last annotation update)
ESTROGEN RECEPTOR ALPHA (FRASMENT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bukaryota: Metazoa: Chordata: Craniata; Vertebrata: Euteleostomi;
Mammalia: Eutheria: Primates; Catarrhini; Hominidae; Homo.
NEVI_TaxID 9696.
                                                                                                                                                                                                                                                                                                                                                                                                                           "Assignmentl of the borse profesterone receptor (PSR) and estroden receptor (PSR) dense to borse chromosomes 7 and 31, respectively, in situ-hybridization.";
in situ-hybridization. ";
cytoaenet. cell Genet. 82:110-111(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Equus caballus (Borse).
Bolk hyvete Metheria: eherbita: Oraciata: Vertebrata: Butebestemi
Mammalia: Butheria: Perissodactyla: Equidae: Equus.
What jayto 5766
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Plam: PF00104: hormone_rec; 1.
Plam: PF02159: cost_recep; 1.
PFINTS: PR00398: SIRDHORMONER.
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EMBG: AF258450: AAG41359.1; -.
HSSP: PU3372: IERE.
                                                                                                                                                                              SMART: SM00430; Holl; 1.
Recentor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A. MEDILINE 984 384 35; PubMed-975 4674; Lear T.L., Addos M.B. Solliege N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             specimens.";
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                                                                                                                                                      Receptor
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                                                                                                                                                                                                                                                                                                                                                                                         HSSP: PO3472: lAKF.
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InterPro: IPR001723; Strdhormone_receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     interPro; [PRO00536; Hormone_rec_liq
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                271 NVVPLYDLLLEMLDAHRI, 288
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125 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             35.98;
57.28;
     14309 MW: REPRELATIVATODENE CHC64;
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Pred. No. 1.4e-33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRT;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches 83;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
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                                                                                                                                                                                                Q90X52:

01-pEC-2001 (FrEMHLICEL 19, Created)

01-pEC-2001 (FrEMHLICEL 19, Last sequence update)

01-pEC-2001 (TremHLICEL 19, Last annotation update)
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Ptam: PF00104; hormone recyl.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6-8 AXTRITIONAL ASBRANDA TARGIVA AND ACTIONAL REAL STREET 
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53.8%: Pred. No. 3.5e-21;
5415ce - 24; Mismutebes - 24; Indelo
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68.19; Prod. No. 1.4e-18;
allwo 50; Mismatches 56
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RA Merkalov G. Milshina N.V. Mobarry G., Morris J. Moshreti A.,

RA Monst S.M., Moy M. Marphy B., Marphy L., Morris J. Moshreti A.,

RA Monston D.R., Nelson K.A., Nixon K., Nusskorn D.R., Pacleb J.M.,

RA Nelson D.R., Nelson K.A., Nixon K., Nusskorn D.R., Pacleb J.M.,

RA Palazzolo M., Pittman G.S., Pan S., Follard J., Puri V., Reese M.G.,

RA Rabier K., Selden Kiames J., Simpsen M., Schooler F., Shou H.,

RA Spier E., Spradling A.G., Stapleton M., Strong R., Sun E.,

RA Spier E., Spradling A.G., Stapleton M., Strong R., Sun E.,

RA Spier E., Spradling D.A., Weinstock G.M., Weissenbach J.,

RA Williams S.M., Moodage T., Worley K.G., Mu D., Yang S., Yao G.A.,

RA Yell, Yeh K.-F., Zaveri J.S., Zhan M., Zhana G., Zhao G., Zhoret L.,

RA Cibbs R.A., Mesodage T.H., Zhona W., Zhona G., Zhu X., Smith H.G.,

RA Cibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;

The denome Sequence of Drosophila melanodaster.";

R. Science 287:2185-2195(2000).
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Amadasi idea policiere S.E., Holl R.A., Evans C.A., Galle R.P.,
George R.A., Lawis S.E., Richards S., Ashburner M.A., Galle R.P.,
George R.A., Lawis S.E., Richards S., Ashburner M., Henderson S.N.,
Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
Brandon R.C., Rougers Y.-H.C., Blazel R.G., Clampe M., Pichiller B.D.,
Wan K.H., Doyle e., Baxte, E.G., Helt G., Nelson C.R., Miklos G.L.G.,
Abril J.F., Adbayani A., An H.-J., Andrews-Plannkoch C., Baldwin L.,
Ballew R.M., Baso A., Baxendale J., Hayraktarodin L., Boasloy E.M.,
Breson K.Y., Benos P.V., Herman B.P., Bhandari D., Bolshakoy S.,
Barth C. I. B. Chan, M.F., Ben P. I., Brastein P., Brottier P.,
Barth C. I. B. Chan, M.F., Ben P. I., Brastein P., Brottier P.,
                                                                                                               Stapleton M., Brokstein P., Hong L., Adbayani A., Carlson J., Charge M., Charce C., Borsett V., Fartan D., Frise R., Goorde R., Choraclez M., Gharin H., Li P., Libo G., Miranda A., Mundall C.J., Numac J., Factleb J., Fartags V., Fark S., Flowanchattens S., Wan K. Yu C., Lowis S.E., Robin G.M., Celniker S.: Saimittel (ABS 2001) to the FMB Georges & JUBBI databases.
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Kimmel B.E., Kedira C.E., Kratt C., Kravitz S., Kulp D., Lai Z.,
Laske F., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
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01-MAY-2000 (TERMINIC). 15, fast sequence update)
01-DEY-2001 (TERMINICAL. 19, fast amoutation update)
02-2444 PROTEIN (CH2840BP).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OUVERED
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Mint.:axto 7417:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SIRAIN BERKELEY
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                                                                                                                                                                                                                                                                                                     STRAIN-Y, ON BW SP:
                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
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                                                                                      SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY)
...MalAseli: bdi>.Net i= i
.; AE003556; AAF50473.1;
.; AY051632; AAK93056.1;
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                                                      THE MOSTLAN HORMONE RESERVORS FAMILY.
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Rost Local Similarity
                                                                                     HSSE P06536; DkD.
InterPro; IPRODU536; Hormone_rec_liq.
InterPro; IPRODU528; Prospest_receptor.
InterPro; IPROD1723; Strathormone_receptor.
InterPro; IPROD1628; zf-c4.
Prim; PSDD104; hormone_rec; 1.
                                                                                                                                                                          LV3.1r
                         Filam (FD02[6]) Prod_receptor. 2.
Filam (FD0105) 21-04 ].
PKINIS: PKONOS48 SIEGBARNNEK
FRINIS: PKONO472 SIEGIAFINGEK.
                                                                                                                                                                                                                                                                                                                                Memopodinae: Xenopus.
Nemi_Taxib 8:55:
                                                                                                                                                                                                                                                                                                                                                                                                              PROGESIERONE RECEPTOR PR.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PKINIS, PROCESS, STROBORMONER. PKINIS, PROCESS, STROIDFINGER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Piam: PPooleS; Zi-C4; l.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HSSP; P03372; IHCQ.
ElyBase: Eban0035849; C07404.
                                                                                                                                                                                                                                                                                       MEDITINE 20824018; Publicd 11050156
                                                                                                                                                                                                                                                                                                                                                                 Amphibia: Batrachia: Amara: Mesobatrachia: Pipoidea: Pipidae:
                                                                                                                                                                                                                                                                                                                                                                                 Bukaryota: Motamos: Chordata: Craniata; Vortebrata; Butoloustomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10EV4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            InterPro: IPR000536; Hormone_rec_liq.
InterPro: IPR001723; Strdhormone_receptor
                                                                                                                                                                                                                                                                          Bayaa M., Booth R.A., Shend Y., Liu X.J.;
                                                                                                                                                                                                                                                                                                                                                                                               Xenopus laevis (African clawed frog).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PMA bipdica: Markear protein, Nevepton, Transcription regulation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro: 1PR001628; 21-04.
                                                                                                                                                                                                                                                                                                                                                                                                                                            ol-MAR 2001 (TrEMBLrel, 16, Created)
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                SMART;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4.06 LUDOSSI KAFROTTI NSI NDVVYI I KRSSAVSHODO-----LELLI PSI BOADDILERE 45.9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      91 PDEVILORDECK - CVECTLETEDMILATISKERELKLØHKEYLCVKAMILLINSSMYPLVTA 149
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SM00399; ZnF_C4; 1.
              TIME TOSTORMS
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                                                                                                                                                                                                                                                                                                                                                                                                                          19, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                            Last sequence update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PKT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            284 VV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               82; Indels 15;
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RESULT 29
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           Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           InterPro: 1PR000536; Hormone_rec_liq.
InterPro: 1PR000128, Product receptor.
InterPro: 1PR001723; Stridhormone_receptor.
Pfam: PF00104: hormone_rec: 1.
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01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
                                                                                                                                               SMART; SM00440; HOLL: 1.
SMART; SM00399; ZDF_C4: 1.
PROSTIE; PSOUGH; NUCLEAR_RECEPTOR: 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY)

1 SIMILARITY, BILOROS TO THE NUCLEAR HORMORE RD

EMBL APZ29.485 ACCA2.462.1; -.

HSSP: P065.46; TRGD.
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Proc. Natl. Acad. Sci. U.S.A. 97:14358-1436(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                        Pfam; PFU2161; Proq_receptor; 1.
Pfam; PFU0105; zf-C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Amphibia: Batrachia: Anura: Mesobatrachia: Pipoidea: Pipidae:
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           SEQUENCE
                                                 Zinc-tinger
                                                                                             DNA-binding: Nuclear protein: Receptor: Transcription regulation;
                                                                                                                                                                                                                                                                                                               PRINTS; PR000498; STRDHORMONER. PRINTS; PR00047; STROIDFINGER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIINE-20570181; PubMed:11111187;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tian J., Kim S., Heilig E., Ruderman J.V.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Xenopodinae: Xenopus.
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732 AA; 82022 MW;
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                                                                                                                                                                                               Query Motch (19.5%) Score 231.5; DB 6; Length 939; Hest Lacal Similarity 28.8%; Fred. No. 4.4e-14; Matches 37; Conservative 45; Mismatches 83; Indels 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Opers Mittal. 20100; Chare 246, E8 14, Length 232; Hest Local Similarity 25.7%; Pred. No. 1.2e-14; Matches 65; Conservative 58, Mismatches 86, Endels 44, Caps
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of MAR 2001 (TrEMBLE). 16, Last sequence update)
of DEC 2001 (TrEMBLE). 19, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRINTS: PROGUST; STROTOFINGER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro: IPROUGL28; Projest receptor.
InterPro: IPROUFZ3; Strdhormome receptor.
InterPro: IPROUFS28; zf C4.
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DNA binding: Nuclear protein: Receptor: Transcription regulation:
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Plans PFO0105; 2f C4; 1.
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MELLINE-SWISSISS, FURMENT TOUZSIIT;
ROSSULFOLD CIS., YOAN X., MARIKKATM., Culder M.F., Carrestick H.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /XSB5: Q9HIS2:
16.act_2001 (Rel. 40, Greated)
16.act_2001 (Rel. 40, Last sequence update)
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SMART: SMOOTO: HOLL; 1
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Plan: PE00105; z1 C4; 1.
PRINTS: PK00047; STROIDFINGER.
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                                Wither N., Lioutas C., Hillmont G., 19ell K., 19ell K., 19ell K., 19ell K., 19ell Borine estroden receptor beta (Erbeta): expression nozel deleted isotorus in reproductive tissues.";
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M.mmaiia; Enteria; Cetartlodactyla; Kuminantia; Pecora; Bovoidea;
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InterPro; IPR001723; Stidhormone_receptor.
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AP267736; AAK15151.1;
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Q9TU15; Q9NOT6;

16-001-2001 (Rel. 40, Created) 16-001-2001 (Rel. 40, Last sequence update) 16-001-2001 (Rel. 40, Last annotation updat

Estrogen receptor beta (ER-beta).

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owis aries (Sheep). ESR2 OR NR3AZ

Mammalia: Entheria: Ostartiodaetyla: Rominantia: Perona: Hovoidea: Bovidae: Caprinae: ovis.

Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi;

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SMART; SM00399; ZnF_C4;
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Ptam; PF00105; zt-c4; 1.
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TISSUE SPECIFICITY: PRESENT IN GRANULOSA CELLS OF ANTRAL FOLLICLES
IN VARIOUS STAGES OF FOLLICHIAR GROWTH.
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Prim; Prostad: barmane ree; L
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A BRA KURISTE BRADE ARE A CITERRINAL STEED TO BIRDING FORAIR,
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SUBSTELLULAR LOSATION: NUCLEAR.
ALLERNATIVE PRODUCTS: ALLEAST 2 ISOFORMS: BETA (SHOWN HERE) AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SIMILARITY: BELONGS TO THE NOCLEAR HORMONE RECEPTORS FAMILY.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APT27936; AADS5772.1;
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Local Similarity

100.0%; Score 886; DB 1; 100.0%; Prod. No. 2.2e 35;

Length 540:

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Conservative

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Priam: PEOOLICA; hormone_ree; I.
Pram: PEOOLICS; zl c4; I.
PKIMIS, PKOOSES, STRUBLEMERUE,
PKIMIS, PKOOCA7; STRUBERDER,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Callithrix jacchus (Common marmoset)
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16 oct 2001 (Ref. 40, Last annotation update)
SEQUENCE
                                                                                                                                                                                                                                                         Zine tinger: Steroid binding: Phosphorylation.
                                                                                                                                                                                                                                                                                                                            PROSTIE: PS00031; NUCLEAR RECEPTOR: 1.
Receptor: Franscription regulation, BNA binding, Nuclear protein;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            or send an email to licensewish sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WCB1_Tax1D 9483;
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SUBSTELLULAR LOCATION: Nuclear
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59087 MW;
                                                                                                                                            C4 TYPE.
                               PHOSPHORYLATION (BY SIMILARITY)
PHOSPHORYLATION (BY SIMILARITY)
                                                                                                         STEEDS OF BUILDING
                                                                                                                                                                                                                      MUSTLEAR RECEPTION TYPE.
   45D85107A84053D1 CRC64:
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"Estrojon receptor-beta mRNA variants in human and murine tissues wai, cell. Endocrinol. 188:199-203(1998).
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                dimerizes with estrogen receptor alpha.";
J. Biol. Chem. 272:25832-25838(1997).
HERMOTION: BINDS ESTROGENS WITH AN AFFINITY SIMILAR TO THAT OF ER-
                                                                  Piev P., Taylor J., Suitharallingam S., Coombes R.C., Ali S.;
"Human estrogen receptor beta binds DNA in a manner similar to and
                                                                                                  CHARACIERIZATION: MEDILINE 97467080; Fabbod 0325313;
                                                                                                                                                     Submitted (OCT-1999) to the EMBL/GenBunk/Dubd
                                                                                                                                                                                   "Cloning and characterization of the estrogen receptor beta gene
                                                                                                                                                                                                                         SECUENCE OF 1-69 FROM N.A.
                                                                                                                                                                                                                                                                                                      MEDI INE 98348389; PabMed 9685228;
                                                                                                                                                                                                                                                                                                                                                                           Brandenberger A.W., Lebovic D. Taylor R N., J. Submitted (JUN 1996) to the EMMAGNAGINARY
                                                                                                                                                                                                                                                                                                                                                                                                               LINSEE Endometrium;
                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE OF 59-530 FROM N.A. (ISOPORM BETA-5A AND BETA-6)
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Data exisa potential inhibitor of estrogen action Nucleic Acids Res. 26:3505-3512(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Muramatsu M.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE PERMISS (ISSESSMERTA 2, TX),
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      estrogen receptor.
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isotooms ":
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "The complete primary structure of human estrogen receptor beta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   outhi Y., Muramatsu M.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Molecular cloning and characterization of human estrogen receptor
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ALIBHA, AND ACHIVATES EXPLOSED A OF REPORTER SERIES CONTAINING
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N. LIVELGHALOVSVHO GRV
                                                                                                                                                                                                                                                                                        Murphy L.C., Watson P.H.;
                                                                                                                                                                                                                                                                                                                                                                                              Jafto P H
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ESTROGEN KESTORSI, KLEMENIS (ERE) IN AN ESTROGEN DEPENDENT MANNER ISORORM BETA-CX LACKS LIGAND BINDING ABILLTY AND HAS NO OR ONLY VERY LOW BEE BINDING ACTIVITY RESULTING IN THE LOSS OF LIGAND-DEPENDENT TRANSACTIVATION ABILLTY, DNA-BINDING BY ER-ALPHA AND BETA IS RAPIDLY LOST AT 37 DEGREES CELSIUS IN THE ARSENCE OF
TAMOXIFEN LOSS IN DNA-BINDING AT ELEVATED TEMPERATURE IS MORE
                                                               LIGAND WHILE IN THE PRESENCE OF 17 BETA-ESTRADIOL AND 4-HYDROXY-
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- SUBUNIT: BINDS ONA AS A HOMODIMER. CAN FORM A HETER-DIMER WITH EP ALPHA. ISOFORM BETA-2/CX PREFERENTIALLY FORMS A HETERBUDIMER WITH ER-ALFHA RATHER THAN ER-BETA AND INHIBITS DNA BINDING BY ER-ALPHA
- SUBCELLULAR LOCATION: Nuclear.
 ALTERNATIVE PRODUCTS: 8 ISOFORMS: BETA-1 (SHOWN HERE)

BETA-2A, BETA-3, BETA-4, BETA-5, BETA-5A AND BETA-6; AKE PRODUCEL

HPTA-2/CX

- SKELETAL MUSCLE, SPLEEN, THYMUS, PROSTATE, COLIN, BUNE MARKOW, MAMMARY GLAND AND DIERUS, ALSO POUD IN DIERUNE HOLE, MERSI, AND OVARIAN TUMOR CELL, LINES, BUT NOT IN COLON AND LIVER TUMORS, TSOFORM BETA-2 IS EXPRESSED IN SPLEEN, THYMUS, TESTIS AND OVAKY AND AT A LOWER LEVEL IN SKELETAL MUSCLE, PROSTATE, COLON, SMALL AND AT A LOWER LEVEL IN SKELETAL MUSCLE, PROSTATE, COLON, SMALL INTESTINE, LEUKOCYTES, HONE MARROW, MAMMAKY GLAND AND UTERUS. ISOFORM HETA-3 IS FOUND IN TESTIS. ISOFORM HETA-4 IS EXPRESSED IN TESTIS, AND AT A LOWER LEVEL IN SPLEEN, THYMUS, OVARY, MAMMARY GLAND AND UTERUS. ISOFORM HETA-5 IS EXPRESSED IN TESTIS, PLACENTA. BY ALTERNATIVE SPLICING.
 TISSUE SPECIFICITY: ISOFORM BETA-1 IS EXPRESSED IN TESTIS AND OVARY, AND AT A LOWER LEVEL IN HEART, BRAIN, PLACENTA, LIVER, SMALL INTESTINE, BONE MARROW, MAMMARY GLAND AND UTERUS. NOT HEART, SKELETAL MUSCLE, AL MUSCLE, SPLEEN AND LEUKOCYTES, AND AT A LOWER LEVEL LUNG, LIVER, KIDNEY, PANCREAS, THYMUS, PROSTATE, COLOR
- DOMAIN. COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN EXPRESSED IN BRAIN.
- A DNA-BINDING DYMAIN AND A C-TERMINAL STEROID BINDING DYMAIN SIMILARITY: HELDINGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.

NR3 SUBFAMILY

or send an email to licensesish-sib.ch). modified and this statement is not removed. between the Swiss Institute of Bioinformatics and the EMBL outstation the buropean Bioinformatics institute. There are no restrictions on it was by the marginal institutions as long as its centert is in no was This SWISS-PROT entry is copyright. It is produced through a collaboration the EMHL outstation entitles regulies a liberise agreement (See hill //www geometrial discussion by and for commercial

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MIM; 601663;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL; AF051428; AAC05751.1;
EMBL; AF061054; AAC39784.1;
                                         Zinc-finger: Steroid-binding: Alternative splicing: Phosphorylation. DOMAIN 1 148 MODULATING.
                                                                                                                                                          SMART: SM00430; HOLL;
                                                                                                                                                                                   PRINTS; PRO0047; STROIDFINGER.
                                                                                                                                                                                                                               Pfam; PF00104; hormone_rec; 1.
Pfam; PF00105; z1-c4; 1.
                                                                                                                                                                                                                                                                             InterPro; IPR001723; Strdhormone_receptor.
InterPro; IPR001628; z1-C4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LMHL
                                                                                                              PROSITE: PS00031: NUCLEAR_RECEPTOR:
                                                                                                                                                                                                                                                                                                                          InterPro; IPR000536; Hormone_rec_lig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; AF060555; AAC15234.1;
                                                                                                                                                                                                                                                                                                                                                                                              AF974599; AAC25603.1; -. AF124790; AAD32580.1; -. AF047463; AAC03786.1; -. AF191544; AAF24232.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AF074598;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   X99101; CAA67555.1; ALI_INIT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AF061055; AAC39785.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AF051427; AAC05985.1;
                                                                                                                                                                                                                                                                                                                                                                      Р03372; 1НСР.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABGG569; BAAS1966.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 аворяячо; наа24953.l;
                                                                                                                                      SM00399, ZnF_C4:
                                                                                          Transcription regulation; DNA-binding; Nuclear protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAC25602.1;
AAC25603.1;
NUCLEAR RECEPTOR-TYPE C4 TYPE.
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Best Local :
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15 JUL 1999 (Rel. 4B, Last sequence update)
01 MAR 2002 (Rel. 41, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            F0F19070 (359380) (759380)
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Performan K., Grandien K., Knipe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 murine estrogen receptor beta.";
Med. Budestinol. 11:353-365(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDITINE 9/211 OF C. PubMod 9058 ORI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota: Metazoa; Chordata; Yaniata; Vertebrata; Enteleostomi;
Mammalia: Eurheria; Rodentia; Schroquathi; Muridae; Murinae; Mus
                                                                                                                                                   Mod. Endoerinol.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tabrie F., Gignere V.; "Clearing and functional analysis of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tremblay G.B., Tremblay A., Copeland N.G., Gilbert D.J., Jenkins N.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mars amasculius (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Estrogen receptor beta (ER beta).
ESBZ OR NEBAZ OR ESTEB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCES.
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                                           SEQUENCE OF A SUPPOM N.A.
                                                                                                                                                                                               heterodimens with estrogen receptor alpha."?
                                                                                                                                                                                                                                                "Mouse estrogen receptor beta forms estrogen response element binding
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                                                                                                                                                                                                                                                                                                            , Kniper G.G.J.M., Gustatsson J. A.;
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STROMULLIAMMACKTEVA VYTOLIJALMUKAHVUKOCKASTIO
TOTATORIAKKHOSOMOQSO – PVAP (IN TSOPORM
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SNECHETICLIME ERVVI VA CLILIMILMANY LED'ELICITE
SNECHETICLIME ERVVI VA CLILIMILME ERVVI 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MISSING (IN ISOFORM BETA-5A)
MISSING (IN ISOFORM BETA 2A)
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PHOSEPHORYIATION (BY SIMILARITY).
FVELT METAL (IN 15 FER RITA 2A)
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Cheng X., Cole K.R., Zafa J., Bart C.W.;
"Afterpating of alphospian begin phosphorylari most the munice estrogen
Receptor; Transcription regulation; DNA-binding; Nuclear protein;
                                                               SMART: SMOO(430); BOLLI; 1.
SMART: SMOO(439); ZhF_C(4); 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This SWISS PROFERITY is copyright. It is produced through a collaboration between the SWISS Institute of KioIntermatics, and the EMML outstation
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i FUNCTION: BINES DETROGENS WIT
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                                     PROSITE: PSOUGHT; NUCLEAR RECEPTOR; 1
                                                                                                                                          PRINTS: PRODOSS: STROHORMONER PRINTS: PRODOST: STROHOFINGER
                                                                                                                                                                                                             Ptam; PF00104; hormone rec; 1. Ptam; PF00105; zf:C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the European Bioinformatics Institute. There are no restrictions on use by non-profit institutions as long as its content is in no
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"Estrodon receptor beta mRNA variants in human and murine tissues.";
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A DNA KINDING DOMAIN AND A COLDEMINAL STEEDED BUNGING DOMAIN.
SIMILARITY: RELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
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AF067422; AAC17919.1; ALT_INIT.
AF063853; AAC16656.1; ...
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                                 nuclei of European Starlings.";
Endocrinology 140:4644-463(1999).
-!- FUNCTION: BUNDS ESTROJENS WITH AN AFFINITY SIMILAR TO THAT OF EP-
ALPHA, AND ACTIVATES EXPRESSION OF REPORTER GENES CONTAINING
ESTROJEN RESPONSE ELEMENTS (ERD) IN AN ESTROJEN DEPENDENT MANNER.
LOCALLY SYNTHESIZEL ESTROJENS MAY ACT VIA ER BETA, IN ADDITION TO
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                                                                                                                                                Bernard D.J., Bentley G.E., Balthazart J., Turek F.W., Ball G.F.; "Androgen receptor, estrogen receptor alpha, and estrogen receptor beta show distinct pathores of expression in forebrain song control
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                                                                                                                                                                                                                                TISSUE Brain
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16-007-2001 (Rel. 40, Last sequence update)
16-001-2001 (Rel. 40, Last annotation updat
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                   ER ALPHA, TO MEDIATE SEASONAL OR DEVELOPMENTAL EFFECTS ON NEARBY
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MISSING (IN ISOFORM BETA-5A).
S.-A: ABOLISHES STIMULATORY EFFECT OF
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S-A: NO LOSS OF THE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 386; DB 1;
Pred. No. 2.2e-35;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /FT1d-CAR_000201
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Submitted (AFR-1998) to the EMBL/GenBank/DDBJ databases
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                 liver."
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Best Local Similarity
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-1- SUBCELLULAR LOCATION: Nuclear
-1- TISSUE SPECIFICITY.
                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Enteleostomi;
Aethopteryoli; Neopteryoli; Teleostei; Enteleostei; Ostariophysi;
Cypriniformes; Cyprinidae; Carassius.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               modified and this statement is not removed. Usage by an outlies a pulses allowers or
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-1- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN.
Tehoudakova A.V., Pathak S., Callard G.V.; "Molecular cloning of an estrogen receptor beta subtype from goldfish
                                                                                                                                                                                                                                               NCBI_TaxID=7957;
                                                                                                                                                                                                                                                                                                                                                                                                                             Estrogen receptor beta-1 (ER-beta-1)
Carassius auratus (Goldfish).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16-0CT-2001 (Rel. 40, Created)
16-0CT-2001 (Rel. 40, Last sequence update)
16-0CT-2001 (Rel. 40, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Zinc-finger;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRINTS, PRO0398; STEEDERMONER, PRINTS; PRO0047; SIROIDFINGER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ptam, PF00104; hormone_ree; 1.
Ptam, PF00105; zf-C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        InterPro: 1PR000536;
InterPro: 1PR001723;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This SWISS-PROT entry is copyright. It is produced through a collaboration between the SWiss Institute of Bioinformatics and the EMMS cutstation the European Mioinformatics Institute. There are no restrictions on its
                                                                                                             TISSUE-Liver
                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Receptor; Transcription regulation; DNA binding; Nuclear protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PROSITE; PS00031; NUCLEAR_RECEPTOR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InterPro; 1PR001628;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  174 CAVCSDYASGEHYGVWSCEGGEAFFERSTLIGHNIN I GFALNIGGT HI KNEEKS GLAGEI KK
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25 173 N
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STANDARD;
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Pred. No. 2.3e-35;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    568 AA
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·영화결정중절요원원원원원등교교교정당
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PS7782:
The out 2001 (Ref. 40, Created)
To out 2001 (Ref. 40, Last sequence update)
To out 2001 (Ref. 40, Last samedation update)
To out 2001 (Ref. 40, Last samedation update)
                                                                                                                                                                                                                                                                                                                                                                   omosthymehus mykiss (fainhow trout) (Salmo qairdheti).
Bukarpoba: Metizon; Cheidati; Craniata; Vertebrata; Biteleostemi;
Aetimopheryari: Negateryari; Teleostei; Biteleostei;
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                Submitted (JUL 2000) to the EMBL/O mbank/Stab databases in FUNCTION BURNESS ESSNEARING WITH AN APPINITY SIMILAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Estrogen receptor beta (ER beta).
ESEL ok NRKAL.
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                                                                                       "Modesular cloning of an estrogen receptor beta subtype from rainbow troot.";
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SMART: SM00-699; ZhF C4;
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                                                                                                                                                                       Harry M., Ackermann G., Fert K.;
                                                                                                                                                                                                                                                                                                                                      Protacanthoptorygii; Salmonitormes; Salmonidae; oncorhynchus
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                GUNG WITH AN AFFINITY SIMILAR TO THAT OF
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Ouery Match 100.0%; Score 386; DB 1; Best Local Similarity 100.0%; Pred. No. 2.4e-35
                                                                                                                                                                                                                                                                                                                                                                                    p50240;
01-02T-1996 (Rel. 34, Created)
01-NeW 1997 (Rel. 35, Last sequence update)
16-00T-2001 (Rel. 40, Last annotation update)
                                                                                                                                                                                                                                                         oreochromis aureus (Israeli tilapia).
Enkuryota: Metazoa: Cherdata: Camiata: Vertebrata: Enteleostomi:
Actimopteryqii: Neopleryqii: Teleostoi: Enteleostoi: Neoteleostoi:
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or sond an omail to licensewish-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the European Bioinformatics Institute. There are no rest
use by non-profit institutions as long as its content
modified and this statement is not removed. Usage by an
MEDLINE 97120581; PubMed 8961252;
Tan N.S., Lam E.J., Ding J.L.;
"Transcription regulatory signals in the 5' and 4' regions of
                                                                                                                                                                                                                                                                                                                                                                   Estrogen receptor (ER) (Estradiol receptor) (ER-alpha). ESRI OR NR3Al OR ESR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Plam: PF00104; hormone_rec; l. Plam: PF00105; z1-c4; l. PK1NIS: PK000598; STROBERNNEK, PKINIS; PK00047; STROBENGER.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SMART: SM00440; HOLL; 1
SMART: SM00399; ZnF_C4;
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                                                                                                                                                                                                                                 Acanthomorpha; Acanthopteryqii; Percomorpha; Percitormes; Labroidei;
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InterPro; IPRO01628; z1 c4.
                                                                                                                                                                                                   Cichlidae; oreochromis
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A CHA BIRDING DOMAIN AND A C TERMINAL STERGID BIRDING DOMAIN.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          66; Conservative
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; F7A7BD7B3B2C2804 CRC64;
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EMBG.: Z46668; CAA63774.1; JOTNED.
EMBG.: Z46668; CAA63774.1; JOTNED.
EMBG.: Z46669; (*AA63774.1); JOTNED.
HSSP: POR372; THCP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This SWISE PECT Entry is copyright this produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on it use by non-profit institutions as long as its content is in no was modified and this statement is not removed. Usage by and for commercial
                                                                                                                                                                                                                                                                                                                                                                                                 NIVW
NIVW
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                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ptam: PF02159; Oest_recep; l. Ptam: PF00105; zf-C4; l.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          haterPro: IPR000536; Hormone_rec_liq.
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SUBJUNIT: BINDS DNA AS A HOMODIMER, CAN FORM A HULLER SIMER WITH ER
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SUBCELLULAR LOCATION: Maclear
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X94560; CAA63774.1; JOHNED.
Z46665; CAA63774.1; JOHNED.
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Pred. No. 5.2e 35
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STEROID-BINDING
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ZN_FING
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Bukuryota; Metazoa: Chordatus (Caniatus Vertebrata; Enteleostomi:
Actihopheryali, Nepteryali, Teleostej, Bucklostej, Nepterstej:
Acanthomorpha: Acanthopteryali, Percomorpha: Percitormes; Labroidei;
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InterPro: IPR001292: cest_recep.
InterPro: IPR001723: StedDarmone_receptor.
HaterPro: IPR001628: zf-c4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and to califies together is because agreement (See 117) [[***] 14 [] 15 [***]
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "CDNA sequence of Tilapia type alpha estionen receptor.";
Submitted (CCT-1996) to the EMBL/GenBank/DDBJ databases.
-i- FINCTION: THE STEWOID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN
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ESEL OK HE3AL OK ESEL
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16-eet-2001 (Rel. 40, Last annotation update)
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Q9YH33;
                                                                                                                                                                                                                                                        SMART: SM00399; ZnF_C4;
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                                                                                                                                                                                                                                                                                     PRINTS; PRO0398; STROHORMONER PRINTS, PRO0047, STROHOFINGER
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Ptam: PF02159: Oest_recep; 1.
Ptam: PF00105: z1-c4; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL; U75604; AAD00245.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  or send an omail to licensedish-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               the European Biointormatics Institute.
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                                                                                                                                                                                                         Zinc tinger; Steroid binding
                                                                                                                                                                                                                        Receptor; Transcription regulation; DNA-binding; Nuclear protein;
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SUBGNIT: BINDS DNA AS A HOMODIMER. CAN FORM A HETERODIMER WITH ER
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A DNA BINDING DOMAIN AND A COTERNINAL STEROOD REMOTES FAMILY.
SIMILARITY: BELONES TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
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SUBCELLULAR LOCATION: Nuclear
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                                                                                                                                                                                                                                         NUCLEAR_RECEPTOR;
                                                                                                                                                        204
159
99.2%;
98.5%;
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Score 383; DB 1;
Pred. No. 5.2e-35;
                                                                             POLY-SER.
POLY-LEU.
                                                                                                             HINGE.
STEROID-BINDING (BY SIMILARITY).
                                                                                                                                             C4 - TYPE.
                                                                                                                                                            C4 - TYPE
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                                                                                                                                                                                            MODULATING (BY SIMILARITY)
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                                                                 WASSEDUBLESSONS CROSS
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                Length 585
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Best Local Similarity

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Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     or send an email to licenserish sib.ch)
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Mol. Endocrinol 1:355-362(1987)
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                                                                                                                                                  NIVW
                                                                                                                                                                                                                                                                                       PROSIDE, ESOBORI, NUCLEAR RECEPTOR.
                                                                                                                                                                                                                                                                                                                                       SMART
                                                                                                                                                                                                                                                                                                                                                                             SMART: SMOO4 (O: HOLL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 tated the calculated and repeated
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SO MEASURE DE
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SUBCELLULAR LOCATION: Nuclear.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ENDORFINOL 1: 455-462 (1987).
FUNCTION: THE STEENOLD BERNORES AND THEIR RESERVORS ARE INVOLVED IN THE RESULATION OF ENARYOTIC SENE EXPRESSION AND AFFECT CELLULAR PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DOMATH: SUMPOSED OF THREE DOMAINS: A MODELATING N TERMINAL DOMAIN, A DNA BINDING DOMAIN AND A C TERMINAL STEROID BINDING DOMAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NEA COURTAINING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SIMILABITY: BELONGS TO THE NUCLEAR BORMONE RECEPTORS FAMILY.
                                                                                                                                                                                             Timer: Steroid binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          65; Conservative
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                                                                                                                                                                                                                                                                                                                                  SM00399; ZnF, C4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STANDARD:
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                                                        0.07
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                  .34 - TYPE.
                                                                                                   NOCTRAC RECEIVED BY TYPE
                                                                                                                                                  SALIVIDAGE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     φ,
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                                DN13 NZ
                                                                                                                                                                                                                                                                                                                                                           the European Ricinformatics Institute. There are no restrictions on use by non-profit institutions as long as its content is in no modified and this statement is not removed. Usage by and for common
 NIVMEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Morimoto J., Miyasho T., Iwano H., Teraoka H., Hirada T., Yokota H.: Sabmutted (JAN 2000) to the EMRC/Georges/1004 databases.

**EUNCTION.** THE STEEKID HORMONIES AND THEIR KROLETENSK ARE INVOLVED IN THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Estrogen receptor (ER) (Estradiol receptor) (ER-alpha). ESRI OR NRBALOR ESR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SECULINCE
                                                                                                                                     SMART; SMOO399; ZnF_C4; 1.
                                                                                                                                                                                                        Ptam; PF00104; hormone_rec; 1.
Ptam; PF00105; zt c4; 1.
                                                                                                                                                                                                                                                                                                                                             estities requires a license agreement (see http://www.i-h
                                                                                                                                                                                                                                                                                                                                                                                            between the Swiss Institute of Bioinformatics and the 1800 outstation the Purepean Ricinformatics Institute. There are no restrictions on it
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cyprinitornes; C
NCB1_Tax1D 7955;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Actinopterygii; Neopterygii; Teleostei; Enteleostei; Ostariophysi;
Cyprinitormes; Cyprinidae; Danio.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Brachydanio rerio (Sebrafish) (Sebra danio).
Bukaryota: Metazoa: Chordata: Craniata: Vertebrata: Eutoloostomi:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16-00T 2001 (Rel. 40, Created)
16-001-2001 (Rel. 40, Last sequence update)
16-00T-2001 (Rel. 40, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ESR1_BRAKE
P57717;
                                                                                 Receptor, Transcription regulation, DNA binding: Nuclear protein; Zinc-tinger; Steroid-binding.
                                                                                                                                                                     PRINTS; PRODUCTS; STROIDFINGER, PRINTS; PRODUCTS; STROIDFINGER,
                                                                                                                                                                                                                                                      InterPro: IPR000536; Hormone_rec_liq.
InterPro: IPR001723; Strdhormone_receptor
                                                                                                                                                                                                                                                                                            EMBL; AB037185; BAB16893.1;
                                                                    NIVMORT
                                                                                                                     PROSITE: PS00031; NOCLEAR_RECEPTOR; 1
                                                                                                                                                                                                                                          InterPro; IPR001628; 21:04.
                                                                                                                                                                                                                                                                                                                             or send an email to license isb sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                This SWISS-PROL entry is copyright. It is produced through a collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      240 CYEVGM 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
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SOMATR. COMPESSO OF THREE BOMAIRS. A MESSIATIRG N TERMINAL DOMAIN.

A DNA BINDING DOMAIN AND A C TERMINAL STERED BINDING DOMAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SUBJULT: BINDS DNA AS A HOMODIMER. CAN FORM A HETERODIMER WITH ERBETA (BY SIMILARITY).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NR + SUBFAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            586 AA;
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151
217
212
218
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308
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98.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            66080 MW; 0EDC77EB0D6F08BF CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 383; DB 1;
Prod. No. 5.2e 35;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STEROID BONDING
                                NUCLEAR KECERTOR TYPE C4 TYPE.
                                                                  MODULATING (BY SIMILARITY)
 HINGE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                - XT;
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NIVWS
NIVES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Michyama K., Fedeb H., Sasaki-Twaska H., Kamen H., Shimaya E.,
Hashimoto S., Kawashima H.;
"A novol isoform of rat estrogen receptor beta with 18 amino acid
                                                                                                                                                                       estimate receptor beta expressed in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   differential activation of multiple estroyen receptors with different estroyen response elements.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              insertion in the ligand binding domain as a putative deminant negative regular of estrogen action.":
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Allowing of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
                                                                          PARTIAL SEQUENTE FROM N.A. (IS FORM BETA 1/DELTA-4)
STRAIN SPRAGUE-DAWLEY: TISSUE-Brain;
                                                                                                                                                                                                              "Hentification of estimate receptor beta2, a functional variant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Aldridge L.C.;
"fissue specific responses to estrogen: an explanation based on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDILINE 98262942;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Proc. Natl. Acad. Sci. U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Oustatissin J.-A.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDJINE=96234066; PubMed:8650195;
Kuipor B B I M , Enmark E , Polto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_FaxID-10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Rattus morvegions (Rat).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Estrogen receptor bota (ER-beta).
ESEL OR NR3A2 OR ERBETA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ESPZ_RAT STANDARD: pRT: 530 AA. U9K185; 055015; 055016; 035784; U9K185;
                "A novel splice variant of estrogen receptor beta found in rat
                                                      Price R., Handa R.J.;
                                                                                                                                                                                                                                                                                              Letersen D.N., Ikalcevir C.T., Koza-Taylor P.H., Turi T.G.
                                                                                                                                                                                                                                                                                                                               MEDILINE 98151005; PubMed 9492041.
                                                                                                                                                                                                                                                                                                                                                               SIRAIN SPRAGUE DAWLEY
                                                                                                                                                                                                                                                                                                                                                                                     SECUENCE OF 46 530 FROM N.A. (ISOFORMS HETA I, BETA 2; DELTA-3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Submitted (NOV-1997) to the EMBL/OPHBank/DDBI dutabases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SIFAIN WISTAR, ILESUE Prostato
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SECHENCE FROM N.A. (18040KM BETA-2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Biochem. Biophys. Ros. Jommun. 246:142-147(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN WISIAR: LISSUE DVary;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE OF 46-540 FROM N.A. (ISOFORM BETA 2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRAIN SPRAGUE-DAWLEY: TISSUE-Prostate:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE OF 46-530 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sub in a
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75-JUL-1999 (Rel. 38, Last sequence update)
76-9CT-2001 (Rel. 40, Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 CYEVOM 66
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Similarity 97.0%,
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475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a novel receptor expressed in rat prostate and ovary.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PabMed 9600083;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  153
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Store 382, DR 1,
Pred. No. 6.5e 35,
2: Mismatches (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  . (ISOFORM BETA·1).
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PRINCIPEL REPUBLICANT (BY SIMELARITY)
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Sciurognathi; Muridae; Murinae; Ra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          93:5925-5930(1996)
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EMBL: AF042059: AAB97425.1: --
EMBL: AF042060: AAB97425.1: --
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EMBL: AF042061: AAB97427.1: --
EMBL: AF042061: AAB97427.1: --
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                                                                                                                                                                                       MOD_RES
                                                                                                                                                                                                                                                                                                                                                                                                          Plam: PF00105; z1-C4; 1.
PRINTS: PR00399: STRINFINGER.
PRINTS: PR00047: STROIDFINGER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EMBL;
                                                                                                              AVESTIC
                                                                                                                               VARSPLIC
                                                                                                                                                                                                                        NIVMORT
                                                                                                                                                                                                                                                                                                                 Zinc-finger; Steroid
                                                                                                                                                                                                                                                                                                                                   Receptor:
                                                                                                                                                                                                                                                                                                                                                                        SMART:
                                                                                                                                                                                                                                                                                                                                                                                         SMART; SM00430; Holl;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Plam: PF00104; hormone_rec; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  interPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HSSP; P03372; 1HCP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL: U57439; AAC52602.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This SWISS-PROLEUTry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRODUCED BY ALLEKNATIVE SPLICING.
-I- TISSUE SPECIFICITY: EXPRESSED IN PROSTATE, OVARY, LUNG, LIVEK, KIDNEY, FAT, BONE, BRAIN, UTERUS AND TESTIS.
-I- DOMAIN: COMPUSED OF THREE DOMAINS. A BYESHATIRG B TERMINAL DEMAIN.
A DRA BINDING DEMAIN AND A C TERMINAL STENGID BINGING DEMAIN.
-I- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sabolition (HIN Later) to the EMAL/REGIONAL SIMILAR TO THAT OF EX-
                                                                                                                                                                  VARSPLIC
                                                                                                                                                                                                                                                                                 CINTER_VNC
                                                                                                                                                                                                                                                                                                    DOMAIN
                                                                                                                                                                                                                                                                                                                                                      PROSITE, PS00031, NUCLEAR_RECEPTOR: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     listerPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro: IPR000536: Hormone_rec_liq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HOMET IVA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ALPHA, AND ACTIVATES EXERESSION OF REPORTER GENES CHURALISM ESTPOSEN ELSPONDE DEDMINES (BEE) IN AN ESTPOSEN ELSPONDED DEDMINES (BEE) IN AN ESTPOSEN SUPERICER MANDER BAND ACTIVATE FRANSCRIPTION DUE TO THE TRUNCATION OF THE DNA AND ACTIVATE FRANSCRIPTION DUE TO THE TRUNCATION OF THE DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NR3 SUBFAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ALTERNATIVE PRODUCTS: AT LEAST 5 ISOFORMS: RETA-1 (SHOWN HERE BETA-1/TELIA-3, RETA-1/TELIA-4, RETA-2 AND RETA-2/TELIA-3; AR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SUBCELLULAR LOCATION: Nuclear.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ALPHA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REGULATOR OF ESTROGEN ACTION.
FTECHT, FIME DWA AS A HOMEDIMEN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BINIERS NAMAIN. ISEFEM BELA-2 SHAKE LESS OF LIGANS BIRSHES
AUTINITY AND SUFFENSSIS EX-ALPHA AND EX-RETA-1 MEDIATED
TRANSCRIPTIONAL ACTIVATION AND MAY ACT AS A DOMINANT NEGATIVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AB012721; BAA254 81.1; -.
AJ002602; CAA056 81.1; ALT_INIT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AJ002603; CAA05632
                                                                                                                                                                                                                                                                                                                                                                        SM00399; ZhF_C4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IPR001723: Strdhormone_receptor.
IPR001628: :1-C4.
                                                                                                                                                                                                                                                                                                                                   Transcription regulation; DNA-binding; Nuclear protein:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CAN ALSO FORM HETERODIMERS BETWEEN ISOFORMS HETA-1 AND
                                                                                                                                                                                                       149
185
215
87
                                                                                                                                                                                                       209
530
87
                                                                                                                                                                                                                                                                                                                 binding; Alternative splicing; Phosphorylation
E -> $ (IN REF. | AND 4).
F -> A (IN REF. | 4 AND 4).
S > P (IN REF. | 4 CAN0564)
S -> P (IN REF. | 3 CAN0564)
S -> P (IN REF. | 3 CAN0564)
                                                                                                        ISCECRM RETA 1/DELTA-1).
MISSING (IN ISCECRM RETA-1/DELTA-4).
R -> RESEDENMIVALMESAAFR (IN ISCECRM
                                                                                                                                                                PHOSPHORYLATION (BY SIMILARITY).
PHOSPHORYLATION (BY SIMILARITY).
MISSING (IN 1809-98M BFTA-1/DELTA-3 AND
                                                                                                                                                                                                                        C4-TYPE.
STEROID-BINDING
                                                                                                                                                                                                                                                                                                    MODULATING
                                                                                           BETA-2 AND
                                                                                                                                                                                                                                                               C4-TYPE.
                                                                                                                                                                                                                                                                                 NUCLEAR RECEPTOR-TYPE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BILL STAND BRIDE V ME BRYD
                                                                                           ISOFORM BETA 2/DELIA-3).
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CONFLICT

530 AA:

59152 MW:

3; (AAo5631) 3; ('AA0'56-11) CONFILICI

ESTHOGEN KESPONSE ELEMENTS (ERE) IN AN ESTROGEN-DEPENDENT MANNER SUBUNIT: BINDS DNA AS A HOMODIMER, CAN FORM A HETEKODIMER WITH EI E 7

ALPHA (BY SIMILARITY). SUBCELLULAR LOCATION: Nuclear

DOMAIN: COMPOSED OF THREE DOMAINS, A MOSSLATING N TERMINAL DOMAIN, A DNA BINDING DOMAIN AND A C TERMINAL STEROID BINDING DOMAIN

ATTIMV, BRIDS - SAN BELONGS TO THE NUCLEAR BORMONE RECEPTORS FAMILY

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InterProx (PROOF223) Stribermone receptor interProx (Likewide8) 21 23. EMBL: 075605; TALL AND - ×-Receptor: Transcription regulation; DNA-binding; Nuclear protein; ::MARI THAME: PRINTS; PROCOAT; STROIDFINGER. PRINIS; PROCESS; STROHORMONER Phane PROSTIES PSOCOSTS NUCLEAR RECEPTORS I. Tinger: Steroid binding. PF00104; hormone rec; 1. 17.7.8.10.4 PF00105; Z1 <04; 1 SMOOTHE SMOO4 (0); Bol.I; TPR000536; Hormone rec liq <u>.</u> ; ΑΛΙΣΟΟ246..1; 4.0HI ZnF F4: 175 NUCLEAR RECEPTOR TYPE. MODULATING

SEQUENCE

(157 AA) 1.5.1

61779 MW;

STEROID BINDING

82A4749B8C39CD76 CRC64;

NIVME SM FINS ZN FING

reclassification of estroyen receptors in teleosts."; Proc. Natl. Acad. Sci. U.S.A. 97:10751-10756(2000). "Identification of a third distinct estrogen receptor and

FUNCTION: BINDS ESTROGENS WITH AN AFFINITY SIMILAR TO THAT OF EK ALPHA, AND ACTIVATES EXPRESSION OF REPORTER GENES CONTAINING ESTROGEN RESPONSE ELEMENTS (ERE) IN AN ESTROGEN DEPENDENT MANNER.

SUBUNIT: BINDS DNA AS A HOMODIMER. CAN FORM A HETERODIMER WITH ER ALPHA (BY SIMILARITY)

SUBCELLULAR LOCATION: NUCLEAR.
FISSUE SPECIFICITY: ABUNDANT IN THE LIVER AND TESTES.

A DNA BINDING DOMAIN AND A C TERMINAL STEROID BINDING DOMAIN. DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN, ABUNDANT IN THE OVARY AND BARELY DETECTABLE IN THE MUSCLE.

WK 1 SUBLAMILY

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::3333333333333333333335744 PROSITE: PSOOOR!; NUCLEAR RECEPTOR; SMAKT, SMART: SMOO4 TO: HOLL: TRINI'S: Plam; PF02422; Keratin; Plam; PF00105; Z1-C4; 1 InterPro: IPR003461; Keratin. InterPro: IPR001723; Stidhermore receptor PRIMIS; PRODESS; STRENGHONER InterPro: IPRO00536; Hormone_rec_liq. EMBL: AF298181; AAG16711.1; Ptam; PF00104; hormone_rec; l. InterPro; SM00399, ZnF_C4: PRODUAT: STROIDFINGER TPR001628; 21:04.

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between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on it

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Hest Local s
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                                                                                                                                                                          "cina cloning and tissue expression of the gilthead sea-bream, Sparus annata, estrogen receptor.";
Sebmittod (HH-1407) to the EMBLACHBARKAND HARR ESCRETORS ARE INVOLVED IN THE REPUBLICAN OF TH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         USPVZ9; USPWP6; C42174;
16-00T-2001 (Rel. 40, Created)
16-00T-2001 (Rel. 40, Last sequence update)
16-00T-2001 (Rel. 40, Last annotation update)
Estroson receptor (ER) (Estradiol receptor) (ER-alpha).
ESRI OK NR3AI OR ESR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Secorro S., Power D.M., olsson P.-E., Canario A.V.M.; "Two estroyen receptors expressed in the teleost fish. Sparns aurata: eDMA cloning, characterization and tissue distribution.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDITNE 99304495; PubMod-10376207;
Hone Chata La Portawa Capital E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sparidae: Sparus.
Nº81_Tax1D=8175;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sparus aurata (Gilthead sea bream).
Bukoryota: Motazoa: Chordata: Craniata: Vertebrata: Esteleostemi;
Artinaptoryyli: Neopteryyli, Teleostei, Esteleostei; Neoteleostei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Receptor: Transcription regulation; DNA-binding; Nuclear protein; Zinc-limer: Steroid-binding.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Acanthomorpha; Acanthopteryqii; Percomorpha; Perciformes; Percoidei;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ESEL STAAU
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                     TISSUE-Liver;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PubMed: 10927619;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE OF 52-579 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE OF 208-483 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HISSUE LIVER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   242 CYEVGM 247
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Endocrinol, 166:293-306(2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               oning and sequencing of the gilthead sea bream estrogen receptor
                                                                    SHEA (BY SIMILARITY).

BURNALNI: COMPOSED OF THERE DOMAINS: A MODULATING N-TERMINAL DOMAIN.
A DAMAIN: COMPOSED OF THERE DOMAINS: A MODULATING N-TERMINAL DOMAIN.
A DAMA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
SIMILARITY: PRICERS TO THE NUCLEAR HOPMONE RECEPTORS FAMILY.
                                             NK3 SUBFAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  65; Conservative
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218
248
673 AA;
                                                                                                                                                                                                                                                                                                                                                                                              Power D.M., Canario A.V.M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STANDARD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    247
202
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74680 MW:
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98.5%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 381; DB 1;
Pred. No. 9.8e:35;
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STEROID-BINDING
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REPOSE REPOSE
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Best Local Similarity
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Eukaryota: Metarca: Chordata: Craniata: Vertebrata:
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Pfam: PF00105; zf:c4; 1.
PF1MTS: PF00338: STECHERMONER.
PHINTS: PF00047: STECHEINGER.
SMART: SM00430: HOLL: 1.
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Sparidae; Paqrus.
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Fisheries Sci 64-131-135(1998)
                                      "Sequence and expression of a cDNA encoding the red seabream estrogen receptor.";
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                                                                                                                                                   Kinoshita M.,
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97.0%; Pred. No. 1.1e-34;
tive 2; Mismatches 0
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QPAN --> HPPT (IN REF. 2).

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        Archosauria; Azes; Neognathae; Passeritormes; Estrildidae;
                          Poephila guttata (Zebra tinch) (Gaeniopygia guttata).
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InterPro: IPRO01628; 21 04.
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SHOULT: BUNDS DAY AS A HOMODIMER. CAN FORM A HETERODIMER WITH ERBETA (BY SIMULARITY).
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DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN
A DNA BINDING DOMAIN AND A C TERMINAL STEROID BINDING DOMAIN.
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                                                                                                                                                             STANDARD;
                                                                                                                                                                                                                                                                                                                                                                         58.4%, Source 880, 1883,
97.6%, Prod. No. 1.16-84;
541356 - 2; Mismatches - 0
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"Zebra Thich estrogen receptor char elemina and mean expression.";
J. steroid Blochem, Mol. 8161, 59:135–145 (1996).
-:- FUNCTION: THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN
                                                                                           01-JAN-1988 (Rel. 06, Created)
                                                                                                                                                                                                138K1
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Ptam; PF00105; 21-04; 1.
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InterPro; IPR001292; oest_recep.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entities requires a license agreement (See http.,,*** isb -ii
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This SWISS-PROT entry is copyright. It is produced through a collaboration between the SWiss institute of Bioinformatics and the EMML outstation the European Bioinformatics Institute. There are no restrictions on i
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         587 AA:
(Rel. 06, Last sequence update)
(Re), 40, Last annotation update)
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EMMO J. 5:891-897(1986).
-1- FUNCTION: THE SPEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN THE RECULATION OF BUXARYOTIC GENE EXPRESSION AND APPEAT OFFICIAR PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.
-1- STERRIT: HINES DNA AS A HEMA-LIMER, CAN FORM A BETEROLOMER WITH ER-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     the Buropean Biointormatics institute. There are no restrictions on its use by more profit institutions as last content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib-sh/ann-one-por send an email to licensedisb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SMART: SM00430; HOLT: 1.
SMART: SM00399; ZnF_C4;
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Plan: EF02159: 0est_recep; 1.
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InterPro: IPROULZ9: strdhormone_receptor.
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Eukaryota: Motazou: Chordata: Craniutu: Vertebrata: Enteleostomi;
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179 CAVCHDYASGYHYGVWSGFGGKAPEKPSIQGHNDYMGPATNQGTIDKMRKKSGQAGELRK 238
                                                               1 CAVOSDYASGYHYGVWSGESGEAFFFFELUGHMUR LUFALMUR LUFAFFFSUGARUSEK FO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DOMAIN: COMPOSED OF THEES DOMAINS: A MODULATING N IDEMINAL DOMAIN, A DUA-D-VECTED DE MAIN ARC A CHEMINAL STEELD BENCHE, TOMAIN, MISCELLANDENS OF THE ARC A CHEMINAL STEED BENCHE, TOMAIN ESCREPTORS ARE THORROR OF THE ASSOCIATED WITH NUCLEAR COMPONENTS; BORNERS BENEFICE OR AFFINITY. THE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SUBCELLULAR Location: Nuclear
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                                                                                                                         64; Conservative
                                   AUPTON SUBSTITUTE OF SUBSTITUT
                                                                                                                                                            Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Transcription regulation; bNA-binding; Nuclear protein;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            one conspens breinformatics institute. There are no restrictions on use by non-profit institutions as long as its content is in no most by and this statement is not removed. Usage by and for commercially a removed and the statement is not removed.
                                                                                                                                                                              ZN_FING
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Salmitted (JAN 1997) to the LMBL/GenBank/DGGJ databases.
-1- PUNCTION: THE STEE OLD HORHONES AND THEIR RECEPTORS ARE INVOLVED IN
               MOD_RES
                                                                               MOD_RES
                                                                                                                                                                                                                                 DOMA I N
                                                                                                                                                                                                                                             Zinc-finger; Steroid-binding; Phosphorylation.
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                                                                                                                                                                                                                                                                                                                                                                Ptam; PF00105; 21-C4; 1
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Pram; PFU0104; hormone_rec; 1.
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InterPro; IPR001292; cest_recep.
InterPro; IPR001723; Strdhormone_reec
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     or send an email to license isb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mammalia; Butheria: Perissodactyla; Equidae: Equus NCBI_TaxID-9796;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Fokaryota: Motagoa: Chorduta: Craniata: Vertebrata: Diteleostomi:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Estrogen receptor (ER) (Estradiol receptor) (ER-alpha) ESRI OR NR3Al OR ESR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-ocT-2001 (Rel. 40, Created)
16-ocT-2001 (Rel. 40, Last sequence update)
16-ocT-2001 (Rel. 40, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ESR1_HORSE
                                                                                                                MOD_RES
                                                                                                                                                                                                                 DN18_BN0
                                                                                                                                                                                                                                                                               PROSITE, PS00031, NOCLEAR_RECEPTOR; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; AF124093; AAD17316.1; -.
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HETA (BY SIMILARITY).
SUBCELLULAR LOCATION: Nuclear.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL EMBAIN, A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN. SIMILARITY, BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR FROLIFERATION AND DIFFERENTIALION IN TARGET TISSUES.
                                                                                                                                                                                                                                                                                                  SM00399; ZnF_C4;
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              PHOSPHORYLATION
                               NOTES INSPIRED
                                             PHOSPHORYLATION
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                                                                                                                                                                                                                                                                                                                                                                                     Prefer U., Pecarotta E., Castagnetta L., Vidali G.;
"Estropen releptor variant mussenger RNA lacking cash 4 in estropen
responsive busan breast cases cell lines.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Greene G.L., Gilna P., Waterfield M., Baker A., Hert Y., Shine J.,
"September and expression of human extroden receptor complementary
INA.":
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21 JUL 1986 (Bel. 01, Created)
01 JUN 1994 (Bel. 29, Last sequence update)
16 GCT 2001 (Bel. 40, Last amoutation update)
                                                                                                                                                                    "Simple nucleotide polymorphisms (SNPs) in the estroden receptor dene-
and breast cancer susceptibility.":
1. Storoid Miochem. Mal. avol. 71:21-27(199).
                                                                                                                                                                                                                                                     MEDITINE 20084-872: PubMod 10619-854;
Schubert Elli, Lee MiKi, Memman B., Kind Mis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "A nozel 80 kbs human estrogen receptor containing a duplication of exems 6 and t_{\rm e}":
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia: Eutheria: Primates: Catarrhini; Hominidae; Homo.
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           the human essitogen receptor.";
                                                                                              MEDITINE 380 55865; PubMod 7476978
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MIDLINE 93153765; PubMed 7916651;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nucleic Acids Ros. 24:962 969(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pink J. J. Wi S. Q. J. Wolf C. M. J. Bilimoria M.M. J. Jordan V. C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDITINE 38174888: PubMed 8600466;
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                                    "Estradiol and phorbol ester cause phosphorylation of serine [18] in
                                                                Joel P.B.,
                                                                                                                     SEQUENTE OF THE 117, PRESERVATION, AND MUTAGENESIS
                                                                                                                                                                                                                                                                                                               A'N MORE 465 751 FO BLANSIDES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DISSUE Breast carcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE OF 216 434 FROM N.A., AND ALTERNATIVE SPLICING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A. AND VARIANT WITH INSERTION IN POSITION 411.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "Human oestrogen receptor cDNA: sequence, expression and homology to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             245 CYEVEM 250
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                                                             Traish A.M., Lammidan D.A.;
                                                                                                                                                                                                                                                                                                                                                               53:741 743(1933)
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97.0%; Fred. No. 1.1e 84;
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             Arnold S.E., obourn J.D., Jaffe H., Notides A.C.: "Phosphorylation of the human estrogen receptor on tyrosine 547 in vive and by sie thely tyrosine kinases in vitro."; Mol. Endocrinol. 9:24-33(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HESCARI 94037103; ExbMed 8221895;
Schwabe J.W.E., Chapman L., Finch J.T., Khodes D.;
"The crystal structure of the estrogen receptor DNA binding domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Potentiation of human extroaco receptor alpha transcriptional activation through phosphorylation of scrines 104 and 106 by the cyclin A-CDKZ complex.":
J. Biol. Chem. 234.2229. 22302(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Amold S.F., obourn J.D., Jaffe H., Notides A.C.: "Serine 167 is the major estradiol induced phosphorylation site on the human estrogen receptor.":
                                                             "The streeteral basis of estrogen receptor/exactivator recognition and the antagonism of this interaction by tamoxiten.";
                                                                                                                                                                                                                                                                                                       MEBLINE 98263297; PubMed-9600906;
Tanenhaum D.M., Wang Y., Williams S.P., Sigler P.B.;
"Crystallographic comparison of the estrogen and progesterone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Brzozowski A.M., Pike A.C.W., bunter Z., Hubbard R.E., Bonn J., Engstroem O., Ochman L., Greene G.L., Gustafsson J. A., Carlquist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             bound to BNA: how receptors discriminate between their response
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PHOSPHORYLATION AT SER 104 AND SER 106, AND MUTAGENESIS MISSLINE 59457754; POLEMO 10428798;
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"Mechanisms of acquired tamoxilen resistance is a xenotransplanted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mol. Endocrinol. 9:1041-1052(1995).
[7]
                                         Coll 95:927-937(1998)
                                                                                                                     Agaid D.A., Greene G.L.;
                                                                                                                                           Shian A.K., Barstad D., Loria P.M., Cheng L., Kushner P.J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Molecular basis of agonism and antagonism in the destrogen receptor.":
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE 97478539; PubMed-9338790;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MIDLINE 91061891; PabMed 2247153;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rogatsky I., frowbridge J.M., Garabedian M.J.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDITINE 95140025; PubMed 7838153;
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                                                                                                                                                                       MEDBLINE 99091051; PubMod 9875847
                                                                                                                                                                                                   X RAY TRYSTALLOGRAPHY (1.50 ANOSTROMS) OF 254 554
                                                                                                                                                                                                                                                                              receptor's ligand binding domains."
                                                                                                                                                                                                                                                                                                                                                                                        X RAY TRYSTALL STRAFHY (2.8 AND TROUS) OF 306 544
                                                                                                                                                                                                                                                                                                                                                                                                                                          Nature 389:753 758(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      X RAY CRYSTALLOGRAPHY (3.1 ANGSTROMS) OF 305-548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cell 25:567-578(1993).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nature 348:458-461(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          receptor."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Solution structure of the DNA binding domain of the oestrogen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PHOSPHORYLATION
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                                                                                                                                                                                                                                                     . Natl. Acad. Sci. U.S.A. 95:5998:6003(1998).
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use by non-profit institute. There are no restrictions on it modified and this statement is not removed. Usave by and for combercial cutities requires a libense agreement (see http://www.isbsib.chganna.new.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDILINE-97348667; FubMed 9195227;
Anderson T.I.: Whose of F. Tabb. F. F. Tilling N., Winten W. Pelve F. Tyelt K.M., Tehnston S.R.D., Powsett M., Olsen Moeller P., Straffon M.R., Robertgson-Dalo A.-I.;
Moeller P., Straffon M.R., Robertgson-Dalo A.-I.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MECHINE 97120591;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            binding domain of the human estroyen receptor. Studies in cell extracts and intact cells and their implications for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDITINE-98280806; PubMed 9619507
Muullouf C. F., Xu W., Smith T., M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Roose J.C., Katzenellenbogen B.S.; "Characterization in the hormone "Characterization of a temperature-sensitive mutation in the hormone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BU-STRUCTURE MODELING OF B11-547.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This SWISS-PROT entry is copyright. It is produced through a collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VARIANT CYS-160
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MISCELLANGOUS: IN THE ABSENCE OF LIGAND, STEROID HORMONE RECEPTORS ARE THOUGHT TO BE WEAKLY ASSOCIATED WITH NUCLEAR COMPONENTS; HORMONE BINDING GREATLY INCREASES PECEPTOP AFFINITY. THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN.
A DNA-BINDING HOMAIN AND A C TERMINAL STERGID BINDING DOMAIN.
PIM: PHOSPHORYLATED BY CYCLIN A/COW2. FHOSPHORYLATION FEGBABLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 THE RECOLLATION OF ECHAPPOINT GENE EXPRESSION AND AFFECT CHILDIAN PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ALTERNATIVE PRODUCTS: AT LEAST TWO FORMS ARE PRODUCED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SUBCELLULAR [OCATION: Nuclear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SUBJUNIT: BINDS DNA AS A HOMODIMER, CAN FORM A HETERODIMER WITH ER
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AF123494; AAD52984 1; JOINED
                               047678; AAB00115.1; -
x73067; CAA51528.1; -
AP124800; AAD52984.1;
                                                                                                                                         M12674;
                                                                                                                                             X03635; CAA27284.1;
M12674; AAA52399.1;
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A., Metemor D., Famalikithmongkol M., Fark I.,
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Best Local Similarity
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16 OCT 2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
16 OCT-2001 (Rel. 40, Last annotation update)
Estroden receptor (FP) (Estradiol receptor) (FF-alpha).
                                                                                                                                                                                                                                                                                                                                                                                                                                -!- SUBCELLULAR LOCATION: NUCLEAR.
-!- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN.
A DNA BURDING DOMAIN AND A C TERMINAL STEROID BURDING DOMAIN.
! SIMILAFURE BELONES TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
                                                                                                                                                                                                                                                                                                              the European Bioinformatics institute. There are no restrictions on use by non-profit institutions as long as its content is in no modified and this statement is not removed. Usage by and to commer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Jones J.E., Carpenter C.D., Lubbers L.S., Petersen S.L., Water of lordosis after food deprivation and refeeding in hamsters.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota: Metazoa: Chordata; Craniata; Vertobrata: Eutoleostomu
Mammalia: Eutheria: Rodentia: Sciurognathi: Muridae: Cricetinae:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ESR1_MESAU
                               PPINTS: PROGRAM: STRPHORMONER PPINTS: PROGRAM: STRPIDEINGER
                                                                                                      Interpro: IPPO01293; Sest_recep.
Interpro: IPPO01723; Strdhormone_receptor.
Interpro: IPRO01628; zf-c4.
Pfam: PPO0104; hormone_rec; 1.
                                                                                                                                                                                                                                                                                                                                                                       This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Ricinformatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Submitted (SEP-1999) to the EMEL/SenBank/JURI databases.
-1- FUNCTION: THE STEPOID HOPMONES AND THEIR RECEPTORS ARE INVOLVED IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bhat H.K., Vadgama J.V.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=20197937; PubMed=10731637;
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                                                                                                                                                                                InterPro, IPP000536; Hormone_rec_liq.
                                                                                                                                                                                                                                                                           or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                               entities requires a license agreement (See http://www.isb-yib-ch/amacancey
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Hamster estrogen receptor cDNA, cloning and mRWA expression.":
T_Startid_Biothem_Nal_Bial_72:47 53(2000).
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SUBCELLULAR LOCATION: Nuclear
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                                                                                                                                                                                                  AF181077, AAD53956.1,
AF184276, AAF02721.1;
P03372; THCP.
                                                                  PF02159; Oest_recep; 1.
PF00105; z1-C4; 1.
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                 SM00430; HOLL;
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97.0%;
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Pred. No. 1.1e-34;
Pred. No. 1.1e-34;
2. Mismatches 0, Indole
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ol NOV 1997 (Fel. 8), Created)
ol NOV 1997 (Fel. 8), Last sequence update)
16 oct 2001 (Fel. 40, Last annotation update)
Estroden receptor (EE) (Estradiol receptor) (EE alpha).
ESEL or NESAL OR ESE.
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                                                                                                                                                                                                                                                                                                                                                      Structure
                                                                                                                                                                                                                                                                                                                                                                                 post translational modification; determination of the primary
                                                                                                                                                                                                                                                                                                                                                                                                          fookenkamp D., Jungblut P.W., Thole H.H.; "The {\cal C} terminal half of the porcine estradiol receptor contains no
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Enkaryola: Metazoa; Chordata; Chaniata; Vercebiata; Enteleostomi;
Mammalia: Entheria: Cetartiodactyla; Snina; Snidae; Sns.
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                              A DNA-BIHDERE DAMAIH AND A C TERMINAL SCEROID BINDING DOMAIN. FIME PROSEDURYLATED BY CYCLIN AZONZ (BY SIMHARCITY).
MISCELLAND STEROID BY REARINE OF LIGAND, STEROID HORRONE RECEPTORS ARE THOUGHT TO HE WEAKLY ASSOCIATED WITH NUCLEAR COMPONENTS;
                                                                                                                                                                                                                                                                                                 FUNCTION: THE STERVED HORROUGH AND THEIR RECIPTORS ARE INVOLVED IN
                                                                                                                              BETA (BY SIMILARITY).
SUBSTBLATIAN LOCATION: NUCLEAR.
DOMAIN: COMPOSED OF THREE ROMAINS: A MODULATING R TERMINAL DOMAIN.
                                                                                                                                                                                                                    PROJETERATION AND DIFFERENTIATION IN TARGET TISSUES.
             HORMONE BINDING GREATLY INCREASES RECEPTOR AFFINITY. THE
                                                                                                                                                                                                                                                                        THE RESULATION OF EUKARYSTIC GUND EXPRESSION AND AFTECT CELLULAR
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2: Mismatch
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III + KG (IN REF. 2).
E41803H4FFDB257E (RC64;
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                                                                                                                                        P19785; 090Y51; Q90Y52;
O1 FEB 1991 (Rel. 17, Created)
O1 FEB 1991 (Rel. 17, Last sequence update)
O1 MAK-2002 (Rel. 41, Last annotation update)
Estroden receptor (ER) (Estradiol receptor) (EK-alpha).
ESRI ob NR3Al OR ESR OR ESTR OK ESTRA.
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PRINTS: PK004508 STROIDFINGER.
PRINTS: PK0047: STROIDFINGER.
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NCBI_TaxID 10090.
                                   Enkaryota: Metazoa; Chordata; Craniata; Vertebrata; Enteleostomi;
Mammalia; Entheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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                                                                                                                      Mus musculus (Mouse)
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CRESIDENCE OFCINEAN OF TRANSCREET FRAK CLARE STEES.
SIMILARLIY: BILLINGS TO THE NUCLEAR BERMONE REFEROORS FAMILY
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PF00105; zf:C4; 1.
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SM00399; ZhF_C4;
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Pred. No. 1.1e-34;
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Interpro: IPR000536: Hormone_rec_liq.
Interpro: IPR001292: Gest_recep.
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Interpro: IPR001628: zt-c4.
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1. FUNCTIONS THE STEERS IN BERMERS AND THEIR SPORTORS ARE ENVISUES.

1. HE REJULATION OF BUKARYOULG GENE EXPRESSION AND AFFECT CELLULAR

PROJUCTION AND DIFFERENTIATION IN TARGET TISSUES.

1. SUBUNIT: BINDS TANA AS A HOMODIMPR CAN FORM A HETEROPIMER WITH ER-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL: AF128221; AAF22562.1; EMBL: AF128220; AAF22561.1; F1R: A40061; A40061.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            use by non-profit institutions as long a modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collaboratic between the SWiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on it
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SMART: SMO(399) ZhF_CA; 1.
PF_STTE: PS(0003); NOTLEAR_RECEPTOR: 1.
Perceptor: Transcription regulation: DNA-binding; Nuclear protein:
                                                                                                                        FEINES: FROOTSS: STREET-KMONER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         entities requires a license agreement (800 bt) []/www.ist.sib.d., one acree
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "A subpopulation of estroden receptors are modified by \% linked N-neetylalucosamine.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Screening for cumulidate genes of mouse autoimmuse discuses." Submitted (JAB-1969) to the FMPC Totale. TEPT for less
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Glycosylation of the murine estrogen receptor-alpha.";
J. Steroid Biochem. Mol. Biol. 75:147-158(2000).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           TRANSFAC; TU0259;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Biol. Chem. 272:2421-2428(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         send an email to license isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PTM: PHOSPHORYLATED BY CYCLIN A/CYK2 (BY SIMILARITY).
MISCELLANESUS: IN THE ARRENCE OF LIGARD, STEROID HORROWS RECEPTORS
ARE HOUGHT TO BE WEAKLY ASSOCIATED WITH NUCLEAR COMPONENTS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HORMORE BINDING GREATLY INCREASES RECEPTOR APPINITY. THE HORMORE-RECEPTOR COMPLEX APPEARS TO RECOGNIZE DESCRIPTED DIA SEQUENCES UPSTREAM OF TRANSCRIPTIONAL START SITES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SUBCELLULAR LOCATION: Nuclear, [ROMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-FERMINAL DOMAIN, A DNA-BINDING DOMAIN AND A C-FERMINAL STEROID BINDING DOMAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NR * SUBFAMILY
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                                                                                               SMOO4 ROLL;
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S., Hart G.W.;
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                                                                        M. 11 [155.5]
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                                                                                                                                                                                                                                                                                                                                         CONA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Submitted (MAR 1987) to the PMPL/SeaBank/DDBJ databases
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16-0CT-2001 (Rel. 40, Last annotation update)
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                                                                                                                                                                                                               STRAIN-SPRAGUE DAWLEY; TISSUE Uterus;
                                                                                                                                                                                                                                                 SEQUENCE FROM N.A
                                                                                                                                                                                                                                                                                                                                                               "Molecular cloning and characterization of rat estrogen receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN-WISTAR;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the European Bioinformatics institute. There are no restrictions on use by non-profit institutions as long as its content is in no modified and this statement is not removed. Usage by and for commen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This SWISS Fact entry is copyright. It is produced through a collaboration between the Swiss institute of Bioinformatics and the EMBL outstation
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Receptor: Transcription regulation, DNA binding, Nuclear protein:
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PIME PROSPECTATION TO COLOR ACCORD WITH MILACITY.

MISCELLAMINERS: IN THE ARGUNEE OF LIGAND, STEROID HORMONE RECEPTORS ARE THOUGHT TO BE WEAKLY ASSOCIATED WITH MICHARC THROUGHTS;
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Ptam: PF00104: bormone_rec; 1.
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Submitted (APK-1998) to the EMBL/SemBank/DDBJ databases
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HSSP: P03372; IHCP.
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Bakaryotu: Metalosa, Chordata, Craniata, Vertebrata, Bateleostomi,
Actinopteryali: Neopaeryali: Teleostet, Bateleostei, Ostariophysi,
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EMBL: AF651275; AA669548.1; ...
EMBL: AF253566; AA624544.1; ...
                                                                                                                                                                                                                                            the foregoin Michinermatics Institute. There are no restrictions on use by non-profit institutions as long as its content is in no madified and this statement is not removed. Usage by and for commer cutifice reprises a lineary appropriate (as it places).
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Pfam; PF00104; hormone_ree; 1.
                       InterPro: IPROF1292; oest_recept
Etht:Pro: IPROF1723; StrdLarmone_receptor
InterPro; IPROF1628; zt-c4.
                                                                                    InterPro: IPRO00536: Hormone_rec_liq.
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                                                                                                                                                                                                                         or send an email to license isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Objection: The Steroid Hormones and Their Receptors are involved in
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Zinc-tinger: Steroid-binding; Allernative splicing.
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Pfam: PF00105; zf-C4; 1.
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Search completed: July 12, 2002, 14:41:47 Job time: 450 Sec

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fred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| No. Score Match Cumith DB In | Bovine ER-beta pro | AAY51946 | 21 | 470 | 95.8 | 11.11 | |
|--|--------------------|-------------|-----|--------|--------|-------|-----|
| Score March (2014th DR ID 1181 100.0 477 18 AAW33212 1181 100.0 485 18 AAW14724 1181 100.0 530 18 AAW37215 1181 100.0 530 20 AAW77859 1181 100.0 530 20 AAW77827 1181 100.0 530 20 AAW277827 1181 100.0 530 20 AAW377827 1181 100.0 530 20 AAW37779 1181 100.0 548 20 AAW37770 1181 100.0 548 20 AAW372770 1181 100.0 548 20 AAW372770 1181 100.0 548 20 AAW372770 | An estrogen recept | AAY 0.1 547 | 20 | 400 | 99.0 | 1169 | 0.1 |
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| Score March Cenqth DR In | | AAY07270 | | 548 | 100.0 | 1181 | α |
| Scorp March Gengli DR ID | | AAB60649 | | 530 | 100.0 | 1181 | 7 |
| Score March George Description Des | | AAU27322 | | 53(| 100.0 | 1181 | ξ, |
| Score Match Description Pescription | Human estrogen re | AAE10457 | | 5 % | 100.0 | 1181 | 5 |
| Score March Gength DR ID | - oestrogen | AAW97858 | | 2.5 | 100.0 | 1181 | 4 |
| Score Match Length DR ID Pescription | oestrogen | AAW33215 | 18 | 5 3 | 100.0 | 1181 | _ |
| Score March Length DR ID Description 1181 100.0 477 18 AAW33212 Human destrogen | | AAW14724 | 128 | 485 | 100.0 | 1181 | N |
| Score March Length DR ID | oestrogen | AAW33212 | 1.8 | 477 | 100.0 | 1181 | _ |
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| .¬ | <u></u> | ÷ | - | | 40 | 39 | 38 | 3.7 | 36 | CO CO | 34 | E E | 32 | 31 | 30 | 29 | 28 | 1.1 | t) O | t) () | 24 | 23 | N | t 3 | 20 | 19 | 18 | 17 | 16 | 15 | , | <u>د</u> ا | 12 |
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| 748 5 | 7 | 7: :. | <i>></i> :: | 750 | 750 | 751 | 752 | 752 | 757 | 3.58 | 758 | 759 | 759 | 759 | 759 | 759 | 759 | 759 | 759 | 761 | 1014 | 1014 | 1039 | 1091 | 1091 | 1091.5 | 1093 | 1108 | 1110 | 1110 | 1110 | 1111 | 1111 |
| 7) 24 | F) | ر ند رم | л. Э | | 63.5 | | 63.7 | 63.7 | 64.1 | (F) | | 64.3 | 64.3 | 64.3 | 64.3 | 64.3 | 64.3 | 64.3 | 64.3 | C4 . 4 | 85.9 | | 0.89 | | 92.4 | 92.4 | | 93.8 | 94.0 | 94.0 | 94.0 | 94.1 | 94.1 |
| • ; | 1 ' 1 | 15,3 | n On | 595 | 595 | 651 | 595 | 595 | 595 | 24.4 | () () () | 595 | 595 | 263 | 595 | 595 | 480 | 457 | # 13 13 | 595 | 418 | 416 | 1330 | 567 | 560 | 223 | 4 8 5 | 549 | 549 | 510 | 510 | 485 | 485 |
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| AAR26782 | AAY21544 | AAW18757 | AA/1845]] | AAC84510 | AAY 33506 | AAW47583 | AAG84514 | AAG84508 | AAG84512 | AAB26784 | AAB26780 | AAG84513 | AAG84507 | AAG84506 | AAG84505 | AAY21626 | AAB36684 | AAB61499 | AA561498 | AAG84509 | AAW3 3214 | AAW33213 | AAR98831 | AAW98128 | AAY04433 | AAR98830 | AAW14725 | AAY04434 | AAW98125 | AAW98126 | AAY04435 | AAY01596 | AAW14723 |
| Orstram receptor | SSR-LBD tusion pol | Model oblinati fra | Human oestroden re | Human costragen re | Human estrogen rec | Multi-chimeric tra | Human oestroden re | Human oestrogen re | Human oestrogen re | Oestrogen receptor | Human oestrogen re | Human oestrogen re | Human oestrogen re | Human oestroden re | Human oestrogen re | Ligand binding dom | Mammalian two-hybr | Protein encoded by | Protein encoded by | Human oestrogen to | Human oestrogen re | Human oestrogen te | tixoled-chedge tex | Mease complete oes | Murine mEk beta-3 | Human Ekbeta whis | Mouse oestroden re | Murine mER beta-1 | Mouse oestrogen re | Mouse oestroden re | Murine mur beta-2 | An estrogen recept | kat oestrogen rece |

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      DNA encoding estrogen receptor—useful in screening assay to identify novel ligands or hormonal analogues
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                                    N-PSDB; AAT88412.
                                                                 Dijkema R, Mosselman S;
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Hest Local Similarity (100.08) Pred. No. 3.76 122;
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It is an oestroaen receptor related nuclear receptor the ER beta amino acid sequence was deduced from a chNA clone (AAT62843) isolated from a human testis clNA library. Rat, human and mouse ER beta AAM1770 acres to the CNA library.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ) LVLTLLEAEPPHVLLSRPSAPETFASMMMSTTKLADKELVHMISWAKKIPGEVELSLEDQ 60
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                                                                                                                                                                        1999 167424/14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       at the 100.0%; Score 1181; DB 18; Length 530; all Similarity 100.0%; Pred. No. 4.3e-122; 230; Conservative u; Mismatches 0; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5 60 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                          3708-6906465
                                                                                                                                                                                                                                                                                                                98W/--US14944
                                                                                                                                                                                                         Hsiao C,
                                                                                                                                                                                                           Karathanasis SK;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAE10457
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     polynucleotides and polypeptides, particularly peptides which include residues 1 % of hER beta. The invention also provides expression systems in which transcriptionally active hER beta or frauments can be produced, as well as screening methods for identifying hER-beta agonists and antagonists (including
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              residues that are believed to contribute to the transcription activation function of the receptor. The amino acid sequence was deduced from the uncleotide sequence (see AAX24364) of an isolated cDNA clone. herebeta is selectively expressed in the thymus, spleen, overy and testes. The invention encompasses herebeta spleen.
N-PSDB: AAD18442
                   WPI; 2001-596920/67
                                                         5 3
                                                                                          (UYMA-) UNIV MASSACHUSETTS
                                                                                                                                                                 15-MAR-2001; 2001Wo-US08276
                                                                                                                                                                                                       20-SEP-2001,
                                                                                                                                                                                                                                              W0200169262-A1
                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                       Estrogen receptor beta; dietary compound; environmental pollutant;
                                                                                                                                                                                                                                                                                                                                                                          Human estrogen receptor (Ek) beta protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAE10457 standard; Protein; 530 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    co-activators and inhibitors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        tissue-specific oestrogens and anti-oestrogens), and hER-beta
                                                                                                                              15-MAR-2000; 2000US 189605P
                                                                                                                                                                                                                                                                                                                     red wine; ER-beta mediated cell growth inhibition modulator; human
                                                                                                                                                                                                                                                                                                                                                                                                                18-DEC-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    448 sqqqsmrlarlimlishrrhasekqmeklingekekqryqdillentet Suo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2.67 TARWA WATTI MAADAAAAAWEETHIIM-ANSVERARS TIKTIINVIRASÕÕÕS (18)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              101 PELETOHELAT ARAUTH DISSMAL ALADONA SEETVEL THOUANA AMATERIA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             269 lyltlledyppbylisrpsaptteasmamsltkladkelyhmiewakkipytyelslidy 427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 VRUTESCHMENTMMOLMMESTIPHFOKLTFAFINLVLIPRDEGKOVEGTILLTEFIMLLATISKE 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 LVLTLLEAEPPHVLISKPSAPFTEASMMMSLIKLAFKELVHMISWAKKIPGFVELSLFDQ 60
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Telki (1865) * Shamii Lessay, Istatykakse Kahiliba i katiwa inkayis
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     lub.0%; Score 1181; DB 20; Langth 5x0; 100.0%; Pred. No. 4.3e-122;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
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Example 2. Fig 7A: 19pp: English

expression

In vitro screening to modulator of estrogen receptor bota-modulator cell growth inhibition by contacting cell having functional EK beta profein with candidate compound and detecting EK-beta regulated generated for the control of th

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RESULT
AAU27 (22
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Best local Similarity 100.
Matches 233 Conservative
restroden receptor dene and protein polymorphisms useful for diagnosis
                                                                                                                  Σ...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAU27322 Standard; Protein; 530 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      processes, thus affecting physiological function positively or
negatively and for testing environmental pollutants for the presence
of estrogen minutes that may pose health risks involving Eksbeta-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              regulated gene expression in presence of candidate compound compared to expression in absence of the compound. The method is useful for intentifying a compound that modulates fix-beta mediated cell growth inhibition. It is useful for testing dielary compounds, e.g. red wine for the presence of estrogen mimics that trigger ER beta mediated
                                                                             N TISTURE ANSA CLOS., ANSA CLOA
                                                                                                                                                                                     Kalbash E. Cassel Md.
                                                                                                                                                                                                                                                        (PLKE ) DE CORP NY.
                                                                                                                                                                                                                                                                                                                              24 JAN 2001; 200108 0768185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human: Obstrugen receptor beta; ERbeta; SNP; chromosome 64.25.1; single nucleofide pulymarphism; cardiovascular disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human restrogen receptor beta.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             involves contacting mammalian cell having functional ER beta protein with candidate compound and detecting increase/decrease of ER-beta:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             THEFT SHIP OF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 osteoarthritis; osteoporosis; breast cancer, endometrial cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              autoliminare dinesses
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LECTATIVITATIVITATIVA MANAMANA MUNICIPALI MONDA IN CINCLAND AND ORGANICAL PROPERTY OF A SECTION 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              888 rolkighkoytovkamillassnyptviatydadssektahllaavidalvweiaksgis 447
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                                                                                                                                                                                                                                                                                                                                                        Senor state
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          systemic lupus orythematosus; arthritis; rheumatism;
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                                                                                                                                                                                     Hwang SS,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human destrogen receptor beta: ER beta: labelled hormone receptor; optical signal: ligand binding; bormonal disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human oestroden receptor beta (ER beta), SEO ID Noch.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               that normally interacts with the receptor protein e.g. oestrogen. The antibody can be used to isolate the protein, to assess expression in disease states e.g. cardiovascular disease and autoimmune disease (e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        designed to quantitatively determine levels of the protein in usage
biological fluids, to identity compounds that modulate receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a novel isolated peptide comprising of enamino acid sequence consisting of an amino acid sequence selected from an amino acid sequence of a variant sestrogen receptor protein (e.g. Educa), or a fradment of
01 FEB-2001
                                                                                                                                                                                W0200107919 At
                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
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stimulate or inhibit interaction between the receptor protein and a target molecule
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The variant peptides and proteins can be used in assays to determine the biological
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sex hormones e.g., suppression of ovulation. The present sequence
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fest substance with a hormone receptor protein. The method involves
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The ligands can be used in a method for preventing or treating an oestrogen receptor mediated disease or condition, such as about those recorption, a cardiovascular disease, cancer, metabolic disorders, or central nervous system disorders. The ligand is especially used to treat esteopolosis, breast, uterine, evarian or prostate cancer, diabetes or Alzheimer's
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14-MAR 1557
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                                                                                                                                                                                                                                                                                             orphan receptor; bestrogen receptor beta; ER-beta; confear receptor, prostate cancer, benign prostatic hyperplasia coarry cancer; cardi-cascular disease; osteoporosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This invention describes a novel isolated bovine estrogen receptor-beta (ERO) which has anticancer and anti-esteoporosis activity. ERb is a transcriptional transactivator that activates estrogen-dependent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New horizon estroyen beta receptor, useful for identifying specific cidands, potentially used for treating cancer and osteoporosis -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Y Match 95.8%; Score H31; D5.21; Length 474;
Local Similarity 94.4%; Pred. No. 1.3e-116;
thes 220; Conservative 6; Mismatches 7; Indels 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             It is an oestrogen receptor related nuclear receptor. The ER-beta amino acid sequence was deduced from a cDNA clone (AAFS2442) isolated from a rat prostate cDNA library. Rat, human and mouse Ek-beta (AAW1472+25) can be used to isolate molecules for use in the
W09911760-A1
                                                                         API site; therapy
                                                                                           differential estrogen receptor. EE alpha. EE betar activation:
                                                                                                                                                                         17 - JUN - 1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          treatment of cardiovascular diseases, central nervous system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A novel rat orphan receptor (AAW14723) is related to the known oestrogen receptor ER-alpha, and has been designated EK-beta.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1: Fig 1: 45pp; English.
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15-MAR-1996;
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                                                                                                                                  An estrogen receptor-beta protein.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61 VRILLESCHMEVLMMGLMWRSTDHPGKLTFAPDLVLDKDEGKCVEGTLETFDMIJATTSKF 120
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Best Local Similarity
Matches 217, Casery
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Estrogen receptor beta; oestrogen receptor beta; Ek beta.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N TERRO AAX26685
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                           Denton R. Frasion C. Galien R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Monse oestrogen receptor beta isoform mER beta 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAW98126 standard; Protein; 510 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               beta (mEK beta c; also designated mEK beta 3). The present sequence represents mEK beta-2, which is an isoform of mEK beta-c. The protein can be used to screen for agents that modulate or block the interaction
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pestrogen receptor; ER beta-1; ER beta-c; mouse; tumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12|| | 12|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 13|| | 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               amplification from a mouse embryonic stem cell genomic DNA library. It lacks excess 5F. Freliminary data indicate that the mEE hota-1 isoform may be more active than the tull-length mEE hota-1 (see AAW98128). 2 Other isoforms, mEE hota-2 (see AAW98126) and rat rEE hota-4 (see AAW98127), have also been isolated, and the human exon 5F reqion (see AAX4949) has been identified. Head on these sequences, the invention provides methods for identifying agents that blook or augment EE hota-c mediated transcriptional regulation, methods to determine whether EE hota-c or its isolatems is being approach in the content that
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                                                                                                                                                                                                                                                             AAY04434 standard; Protein; 549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  block the transcriptional regulation of genes by ER beta-c or its isoforms, which in turn medulates other biological and pathological processes. Gene therapy expression of ER beta-c is envisaged.
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the mEP beta-1 close was isolated by PT-PCP of mPNA, and by
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                                                                                             Estrogen receptor
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                                                                                                                                                                                 25 JUN 1999
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                                                                                                                                                                                                                                                                                                                                                                181 SZQQSMFLANI LMLI SHVERBASNKOMEHLI NMKOKNVVEVYDI LLEMLNAHVI. 233
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                                                                                                                                                                                                                                                                  ordam receptor; postrogen receptor beta; EK beta; muelear receptor; prostate cameer; benium prostatie hyperplasia;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 9; Fig Za; 89pp; English
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                                I MARIA I II
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Rat, human and mouse ER beta (AAW14723-25) can be used to isolate
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Ligand-binding domain
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kuiper GG;
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Garnier J:

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        wery Match 92.4%; best Local Similarity 94.8%.
Matches 221; Conservative
                             Estroyen receptor beta; cestrogen receptor beta; ER beta
                                                                             Murine mER beta-3 clone protein sequence.
                                                                                                                                                                                                                                                      AAY:4433 Standard; Protein; 560 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Experta ligand binding domain complexed with genestein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 intibiting turther binding to it. Theretore, the ligands are useful in
the treatment of oestrosen receptor mediated diseases in Lemales.
The present sequence is the protein sequence of a crystal of human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (or mimetics) by providing ligands which bind to ERbeta with a high allimity, blocking the activity of pestrogens. Alternatively, binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 residues of the destroyen receptor-beta (ERbeta) ligand binding domain complexed with a ligand which is an antagonist or partial antagonist. The crystals may be used for inhibiting the activity of destradiol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Treatment of estroyen receptor mediated diseases in females -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Stystais comprising amino acids of the estrogen-receptor-beta ligand basaling domain complexed with an antagonistic ligand, useful for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WP1: 2001-416591/44.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cestrogen receptor-mediated disease; complex; ligand antagonist.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the ligand to ERbeta may cause conformational changes to ERbeta, thus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     the invention relates to crystals comprising at least 150 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Plaim 6: Column 9-12: 21pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12-FEB-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        THE SOCCEMBLANCEMELSHYRHASNKGMEHLENMKCKNYVPVYDLELEMENAHYL 233
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       syqismrlanilmilshvrhasnkymehllmmkekneepvydlllemlnahvi 229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VELLESCHMENIMMOLMWESIDHPGKLIFARDLVIJJEBEGEGVEGILEIFDMLLATTSRF 120
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7908-000-8086
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Hubbard FE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0: Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 1091.5; DB 2
Pred No 1 to-112;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 22; Length 229;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1; Indels 11; Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 92.4%; Score 1091; DB 20; Length 560; Best Local Similarity 86.1%; Pred. No. 4.4e-112; Matches 216; Conservative 10; Mismatches 7; Indols 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present sequence is the murine complete destroyen receptor beta (mER beta c) also designated mER beta 3). The protein can be used to screen for agents that modulate or block the interaction between the ER beta c protein and physiological, stilbene or triphenylethylene (anti)destrogens. The antibody which binds the protein can be used in assays to detect activation of the ER beta protein and ran be used to subcellular localisation of the protein. The complementary nucleic acid can be used to inhibit expression of the EE beta c nucleic acid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel murine cestrogen receptor beta genes and splice variants useful for treating destrogen receptor-beta mediated disorders
                                                  Oestrogen receptor. ER beta 3, ER beta c; mouse; tumour;
                                                                                                        Mouse complete destrogen receptor beta mER beta 3.
                                                                                                                                                                   21 - JUN - 1999
                                                                                                                                                                                                                                                                              AAW98128 standard; Protein; 567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 9; Fig lb-1; 89pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         103 VEGILETEDMILATISRERELKIJHKEYLJVKAMITLNSSMYFLVTATJODADSSKKLAHL 162
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                                                                                                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           domain of mEK beta 3, and probably plays a significant role in mEK beta-3 function. The mEK beta-3 clone was twice isolated using 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             not tound in ER beta i. Exon SH is located in the ligand binding
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N TOTAL AAXLAS O
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including the newly described exam 5B, which is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  92.4%: Secto 1091; DB 20; Length 567; 86.1%: Prod. No. 4.5e-112;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
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Ligand binding domain; crystal; destradiol inhibition;
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the present sequence is the protein sequence of a crystal of rat
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                                                                                                                                                                                                                                                                                | 121 | E. J. G. B. G. S. WARK, J. G. J. M. F. A. A. J. M. J. J. A. A. J. M. J. MATTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTALAMYTTA
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                                                                                                                                                                                                                                                                                                                                                                                                          truncation of the carboxy terminus of the novel receptor. This receptor is able to bind and be activated by estradicily estone and estrict, can be used in a screening assay for the identification of new druds e.g. novel liquids or hormonal analogues. This variant does not contain an AF-2 region and therefore probably lacks the ability to modulate transcription of target genes in a ligand dependent tashion.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 oestroden receptor represented. As a consequence of the introduction of
this exam through an alternative splicing reaction, the reading frame
encoding the novel receptor is immediately terminated, creating a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This partial sequence represents a splice variant of a novel obstroops building protein, detected by screening a human testis cDNA library. This protein contains as alternative example (example) if the most
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N FSDB: AAIBB413.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAW33213 Standard: Protein: 416 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA encoding estrogen receptor - useful in screening assay to
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                                                                                                                                                                          61 VELLESCHMEVLMMGLMWRSIDHPGKLIFAPDLVLDRDEGKCVEGILEIFDMLLATTSRF 120
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                                                                                                                                                                                                                                                                                                    h 85.9%; Score 1014; DB 18; Length 416; Elmilarity 100.0%; Fred. No. 1c 103;
                                                                                                                                                                                                                                                                                                                                                                              416 AA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                      This sequence represents a splice variant of a novel westromen blinding protein isolated from human thymus tissue. This protein contains an internal free case 6 (ex.m. 82) of the facel westrome respected in AAR88412. This poyel receptor is able to bind and be activated by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 4; Page 30-32; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA encoding estrogen receptor - useful in screening assay to identity novel ligands or hormonal analogues
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sample of the contract of the 
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[74] depth to the comment of the set of the comment of the comment
                                                                                                                                                    1. LAGIGLARÁRA ERVITAR ELAÑERTEKAMMAR LLELAGERIARMAR KARELLEG MELSHET EL HELLEG EL 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and a fusion protein of the second protein with a DNA binding sequence. These are expressed in a mameralian cell sectioning ENA carrying a reporter peak demostrate of a sequence binding to the DNA-binding to sequence; and the expression of the reporter gene is detected to indicate interaction of the two proteins. The method is useful for the identification and examination of protein interactions within the mammalian cell, and screening of potential drugs targeting them.
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                                                                                                                         119 SESTEKTŐBERYLÖVKAMILLMSSMYPLVTAT QDADSSEKLAHLIMAVIDALVMVIAKS 177
                                                                                                                                                                                                                                           363 yltlqqqhqrlaqillilshirhmsnkgmehlysmkcknvvplydlilemldahri 418
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                                                                                                                                                                                                                                                                                     1 EVELLEARPPHYLISK--PSAPETEASMMMSETKLADKELVHMISWAKKIPGFVELSEF 58
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The aromatic compound (of a specified turmontal) can be used to increase alpha discreptosphate debydrogenase (GPDH) levels, at levels which do not significantly modify cardiac GPDH levels and are statistically to the compound of the levels and are
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02 AB6 2000; 2000.JP 0.024073.
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                                                                                                                                                                                          acids encoding them and cells comprising them and a specified reporter acuse for the ligand dependent transcriptional factor. These profess are useful in the modulation of ligand dependent transcriptional factor activity. The cells, mutant Ekajpha and the polynucleotide encoding it
                                           for screening a compound useful for treating a disorder of ERalpha, especially breast cancer.
                                                                                          may be used to assays for qualifiatively analyshing an activity for transactivation of a reporter gene by a test Exclpta, for screening matant than dependent transcriptional factors. For evaluating and/or activity for transactivation of a reporter gene by a test Exalpha and/or activity for transactivation of a reporter gene by a test Exalpha and/or
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                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to ligand dependent transcriptional factors including destrogen receptor (ER) alpha and beta protein, glucocorticoid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 7: Page 167-170; 276pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     screening agents for the treatment of breast cancer
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brod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| 1.6 471 | 175 | 14 376 | 0.88 | 12. 380 | ======================================= | | 4 346 | 3 KH2 | 7.88 | 988 | . 385 | 486 | 486 | 488 | . 386 | Pesult No. Score |
|--------------------|---|--------------------|-------------------|--------------------|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--|--------------------|--------------------------|
| 96, . 1 | 47. | 97.4 | 98.4 | 98.4 | 98.4 | 6.4 | 19.9.17 | 99.0 | 99.0 | 100.0 | 100.0 | 100.0 | 100.5 | 100.0 | 100.0 | Query Match |
| 542 | ,n 44 | 769 | 4.3.1 | 336 | 244 | 6.20 | 569 | 564 | 4199 | 553 | 20.5 | 27.5 | 503 | 485 | 250 | Query Match Length DB |
| _ | | _ | Ġ | 4 | .5 | | 1 \$ | , | Ť | _ | _ | 5 | 11 | 5 | 5 | 1 |
| 0902E6 | SKOOKS. | Q90WS9 | 0951.13 | Q14267 | E-80101 | CHOMIPS. | CARSMA | O90MV1 | 0.4WS&O | BSMorc | CUSSM7 | \$M0865 | 982140 | ©95ME∵- | gryfaldo | 10 |
| 090ze6 squalus aca | produced designation of the control | υ90ws9 brachydanio | Q95113 ovis aries | Q14267 homo sapien | Q45jcl canis tamil | y90wh6 clarias qar | Ç98sm9 brachydanio | Q90wvl carassius a | ум5mf0 macaca aret | oinsbydanio 8sw000 | gbasm7 brachydanio | gyhdw5 sus scrofa | nliosna sam 98714ð | September 1981 Septem | ψ95jc0 canis tami; | Description |

| 45 | 44 | 4.3 | 4 2 | 41 | 40 | 34 | 8 | 3,7 | 36 | 35 | ž. | 3 | 3.2 | 31 | ÜE | 29 | 28 | 27 | 7.6 | 25 | 60 45 | 2* | NJ NJ | 21 | 20 | 19 | 18 | 17 |
|--------------------|-------------------|--------------------|--------------------|--------------------|----------------------|--------------------|--------------------------|---------------------|--------------------|---------------------|----------------------|----------------------|--------------------|--------------------|-------------------|---------------------|--------------------|--------------------|--------------------|--|--------------------|------------------|--------------------|--------------------|--------------------|---------------|----------------------|---------------------|
| 230 | 2 3 1 | 232 | 232 | 2 12 | 232 | 232 | 232 | 11.1 | 234 | 234 | 9:12 | 236 | 234 | 2 14 | ru E | 233 | 249 | 63.5 | 6.53 | 240 | 62 62 | 10510 | 276 | 101 | 319 | 44 5 | 7.33 | 595 |
| 54.6 | 54.8 | 60.1 | 60.1 | 60.1 | 60.1 | 60.1 | 60.1 | 60.6 | 60.6 | 60.6 | T : | 6.1.1 | 61.9 | 61.9 | 61.9 | 61.9 | 61.9 | 61.9 | 61.3 | 62.2 | 65.3 | 67.9 | | 78.0 | 82.6 | 84.4 | ر بر ع | 95.6 |
| 444 | 303 | 982 | 63.87 | 747 | 7 12 | 706 | 15.4 | 40. | 36.8 | 68 | æ5.3 | 56.3 | 406 | 968 | τι 2 2 | 3.40 | 769 | 730 | .* E | 4 38 | 7:0 | 4 8 4 | 2.03 | 155 | 34 37 | = | 127 | ئے۔ 20 |
| J | 6 | 5 | <u>ت</u> | 1 3 | L W | | 1 | | ъ - | 4 | ب. ن, | 13 | 4 | ري - | ۍ - | ند | 13 | ** | Ü | 13 | 13 | 'JI | 4 | 1.3 | <u>_</u> | _ | œ. | تد |
| P41780 | 097684 | 09N0W8 | Q9GI.W0 | Q9PWG5 | 60PINIA | Q96KUY | 0.85 3.09 | O902M6 | Q95WF7 | 0.60me | (39) 3245 | Q9DDJ4 | CAUNTI | Q9GK1.7 | PACK NO. | P70018 | 093497 | Q13771 | CREEK4 | Q90ZM7 | Q4181.5 | 09VSE9 | 74DH65 | £20060 | @9DD2.4 | Q923V1 | * XOBAS | \$1,dde5 |
| P91786 polyandraca | 097684 ovis arios | OʻnOwa saimiri sci | ogalwo canis tamil | copwas ananilia ja | enti sudonex anippañ | cyfkyr homo sapien | n poor to esom glos 25.5 | aorámento de sucoso | Q95w17 aeropoia mi | ©'mid95 homo sapien | 198245 one or hynebu | Codd j4 had inhantes | gennzl homo sapion | ergki 7 sas sarota | gwikny sus scrota | P70048 xempers lar- | o93497 pagrus majo | Q14771 homo sapien | gudert xenopus lac | a system 7 per malos de de la compansión | gwibd% anguilla ja | gwsey drosephila | 69heb2 home sapien | U9ddz3 micropterus | @9dd24 micropterus | Uszson [Aszkā | estates capita hinsu | godd) (haliohaeres |

ALTONMENTS

| KESSU | RESULT 1 |
|---------------|--|
| 095JC0 | 30 |
| E | Q95JCO PRELIMINARY: PRI: 250 AA. |
| ΑC | |
| UT | (Tremblie). |
| PT | 14, |
| TC | 01-DEC-2001 (TrEMHLrel, 19, Last annotation update) |
| E | J. |
| ŝ | ERBETA. |
| ž. | Canis familiaris (Dog). |
| 00 | Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi: |
| 9 | Mammalia: Eutheria: Carnivora: Fissipedia: Canidae: Canis. |
| × | NCHI_TaxID 9615; |
| X Z | |
| 7.F | SEQUENCE FROM N.A. |
| <u>~</u> | TISSUE EPIDIDYMIS; |
| R.Α | Kaeppier-Hanno K.G.; |
| Ξ. | Submitted (July 2003) is a few fivel, Sandar K, Sandar for Brasser, |
| χ Z | [2] |
| 준 | SEQUENCE FROM N.A. |
| RC. | TISSUE EPIDIDYMIS; |
| ₹ <u>></u> | Telgmann R.: |
| 포 | "Epididymal epithelium immortalized by Simian virus 40 large: |
| E | antigen: a model to study epididymal gene expression.": |
| | - P. Marin teat (1997) O 1997 (1997) (1998) (1998) (1998) (1998) (1998) |
| DR. | EMBL; AJ313196; CAC42097.1; |
| TT | NON_TER 1 1 |
| L.I | NON_TER 250 250 |
| č | E 250 AA; |
| | |
| ਹ (ਹੈ ਹੈ | Best Local Similarity DO.OM: Pred. No. 1 98-42: |
| M G | vative n; |
| Ϋ́ | 1 CAVOSDYASGYHYGVWSTEGGFAFFNES : JOHNGY I TEALNGT I I EKNEEKSTGATROEK -60 |
| ÷ | 6 MACANA AND MACANA |
| ŕ | ・ こく ひきかん かくい かんしゅう くまり こうじょ コンタ かけん かんじゅう かんかい しょうしゅ しょうじゅう しょうしゅうしゅ |

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      unery Match 100.0%; Score 886; D8 6; Host Local Similarity 100.0%; Fred. No. 8.7e-42; Matches 66; Conservative 0; Mismatches 0;
                                                             Matches 66, Conservative
                                                                            guery Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                              01 DEC 2001 (TERMELOI, 19, Created)
01 DEC 2001 (TERMELOI, 19, Last Sequence update)
01-DEC 2001 (TERMELOI, 19, Last amnotation update)
ESTHOGREN RESERVOR REFA TYPE II SPLICE VARIANT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Scobie G.A., Wilson J.A., Millar M.R., Macpherson S., Saunders P.T.;
The estrogen receptor beta variant ERBeta ex/ERBeta2 is expressed in a wide range of tissues in both old and New World primates.";
Submitted (JHN 2001) to the EMB, Geekank, Fackt databases.

EMBL, AF 9 4816; AAK71 (18.1)
                                                                                                                                                                                                                                                                                                                             Mus musculus (Mouse).
Bukaryota: Metabar Chordata: Chaniata: Vertebrata: Enteleostomi:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EPRETA2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        of DEC 2001 (TrEMBLICEL 19, Greated)
of DEC 2001 (TrEMBLICEL 19, Last sequence update)
of DEC 2001 (TrEMBLICEL 19, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         634M9.60
                                                                                                                                                                         EMBL: AV054413; AALTS175.1; ...
                                                                                                                                                                                                               STRAIN DDY;
                                                                                                                                                                                                                                                                                                    NEBL Tax D 10090;
                                                                                                                                                                                                                                                                                                                       Mammadia; Entheria; Rodentia; Sciuroquathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                 0.012865
                                                                                                                                                                                                                                                                                                                                                                                                                                              091286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE 486 AA; 54344 MW; 4B293B5B7371F277 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SECTIONS PROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUBL TAXID 9483;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mammalia; Eutheria; Primates; Platyrrhini; Callitrichidae; Callithrix
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Enkaryota; Metazoa; Chordata; Craniata; Vertebrata; Enteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Callithrix jacchus (Common marmoset)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ESTROGEN RECEPTOR BETA 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OPSMED;
                                                                                                                                                                                                                                                                        SECULENCE PROM N.A.
                                                                                                                                                                                                     inhibits adipogenesis.";
 104 CAVCSDYASGYHYGVWSGEFEKAFFKRSTOGHNEYTGFAFNOCFIDKNRKKSCOAGKERK 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            149 CAVOSDYASCYHYGVWSCEGEXKAFFKES I JOHNOY I CITA I NJOH I HIKNEEK SOLJACKOKK - 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              209 CYEVOM 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99 MUANAL, 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       92 CYEVOM 97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99 WOABAU 19
              '.c.: AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRELIMINARY;
                                                                                                                                           56072 MW, D68538BFD3693251 CRC64
                                                                            100.0%;
                                                                                             100.0%;
                                                          score 386; DR 11;
; Pred. No. 3.8e-42;
3; Missalthes 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRT;
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                                                                                                                                                                                                                                   Papapoulos S., Jowik C.,
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                                                                                                                                                                                                                                                                                                                                                                                          Ouery Match 100.0%; Score 386; DE 6 Rest Local Similarity 100.0%; Pred. No. 4e-42; Matches 66; Conservative 0; Mismatches
                       Brachydanio rerio (Zebralish) (Zebra danio).
Enkaryota: Metazoa: Chordata: Craniata: Vertebrata: Enteleostomi;
Actinafter; Fil. Besptergiil, Teleostei, Enteleostei; Ostariophysi:
Cyprinitonmes: Cyprinidae: Danio.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01 JUN 2001 (FrEMBLrel: 17, Created)
01-JUN-2001 (FrEMBLrel: 17, Last sequence update)
01 DEC-2001 (FrEMBLrel: 19, Last annotation update)
SEQUENCE FROM N.A.
                                                                                                        01-JHN-2001 (TEBMELTOL. 17, Created)
01-JUN-2001 (TEBMELTOL. 17, Last sequence update)
01-JEC-2001 (TEBMELTOL. 19, Last annotation update)
ESTROGEN RECEPTOR BETA.
                                                                                                                                                                      098SM7;
                                                                                                                                                                                      0988M7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA-binding: Nuclear protein; Receptor; Transcription regulation; Zine-tinger.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRINTS: PRODASE: STROBORMONER, PRINTS: PRODOAT; STROIDFINGER, SMART; SMOO430; BOLL; 1.
SMART; SMOO399; ZDF C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro; 1PR000536; Hormone_rec_liq.
InterPro; 1PR001723; Strdbormone_receptor.
InterPro; 1PR001628; zf-C4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HSSP; P03372;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; AF267736; AAK15151.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Endocrinology 0:0-0(2000).

1. SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).

-1. SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Clading and expression of estrogen receptor beta isotorms from porefine ovary.":
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID 9823;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ESTROGEN RECEPTOR BETA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CABDM2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ptam; PF00104; hormone_rec; 1.
Ptam; PF00105; z1-C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE -OVARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sus serola (Pig)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LaVoie H.A., DeSimone D.C.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  164 CYEVGM 169
                                                                                                                                                                                                                                                                                                                                206 CYEVGM 211
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                                                                                                                                                                                                                                                                                                  61 CYEVOM 66
                                                                                                                                                                                                                                                                                                                                                              1. CAVCSDYASCYBYCVWSCISICKAFFKRSTQCBNDYTCTATNQCTTTENBERSCQACBLEE. 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             526 AA; 58847 MW; 346D3E47C2TE814C CRC64;
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                                                                                                                                                                                        PREILIMINARY;
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Matches 66
                                                                                                                   Matches 66; Conservative
                                                                                                                               Duery Match
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Plan: Pro0104; hormone_lee; 1.
Plan: Pro0105; 71:04; 1.
Plan: Pro0105; 71:04; 1.
Plan: PR000478; SIR010#RMONER.
PRINTS: PR00047; SIR010#INGER.
SMART: SM00440; P04.1; 1.
SMART: SM00499; ZnF_74: 1.
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InterPro: IPR000546: Hormone_rec_lig.
InterPro: IPR001724: Strdbormone_receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AKTEN H., KISHIDA M., Callard G.V.;

"Estroyen receptor CDMAS in zeotatish.";

Submitted (FFE 2001) to the FME (Social) (THEL data) isso.

-!- SUBCELUIDAR LOCATION: NUCLEAR (BY SIMILARITY).

!- SUBCELUIDAR LOCATIONS TO THE NUCLEAR BORNOUT RECEPTORS FAMILY.

EMPL. AP319314: AAX16742.1;
                                                                                                                                                                                                                                                                                                                                                                                                                              ©10MS8:
01:080-2001 (TrEMBLrel, 19, Created)
01:080:2001 (TrEMBLrel, 19, Last sequence update)
01:080-2001 (FrEMBLrel, 19, Last annotation update)
                                                                                                                                                                                                      "Binding characteristics, transactivation proporties and contral expression of three estroach receptor subtypes in zebrafish.": Submitted (SEP-2001) to the FMHL/MonBank/CDRI darabases EMBL) AJ414567: CACMAR44 1:
                                                                                                                                                                                                                                                                                                                                       Actinopteryqii; Neopteryqii; Feleostei; Enteleostei; Ostarioshysi;
Cyprinitormes; Typrinidae; Danio.
                                                                                                                                                                                                                                                                                                                                                                       Brachydanio rerio (Zebratish) (Zebra danio).
Eukaryota: Motaloa: Cherdata: Craulata: Vertebrata: Entelcostomi:
                                                                                                                                                                                                                                                                                                                                                                                                          ZEEK-BEIA2
                                                                                                                                                                                                                                                                                                                                                                                                                      ZEEK-BETA2 PROTEIN.
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                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A. Medicet E., Anglade I., Blaise O., Laudet V., Kah O.
                                                                                                                                                                                                                                                                    Pakiel F.
                                                                                                                                                                                                                                                                                                                            N:N1_1ax10:7955;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                219 CYEVGM 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            has 66; Conservative (
219 CYEVGM 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9.9 MUARAL 13
                            P. CAEAGH &
                                                                                   1 CAVOSDYACGYBYCVWCYLCOBALI KRSTOMBRICY DYDATNOCH DBENEBESTÇACELEE 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 CAVOSO) ASON MOOVWSCHOOFAREKEZIQUUMON OOFA INGO HOMNEEKSOQAOFILEK SOO
                                                        CAMPEDA ASTAUR DAMARE STRAFFRAS A GENEVA DE LA RURCO LE RIBERS SQUADRILA. 218
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                                                                                                                              Similarity
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                                                                                                                                                                                        553 M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRELIMINARY:
                                                                                                                                                                                           62323 MW;
                                                                                                                            100.0%; Score 386; DB 13;
190.0%; Prod. Mo. 4.2e 42;
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01-DEC-2001 (TrEMBLrel. 19, Created)
91-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
ESTROGEN RECEPTOR BETA 2.
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The extroductocytes beta larian DSP-1: "GPRF-1: Texpressed
a wide range of tissues in both old and New World primates.";
"her PMEL: AF393815; AAK71317.1; "Her EMEL: AF393815; AAK7137.1; "Her EMEL: AAK7137.1; "Her EMEL: AAK7137.1; "Her EMEL: AAK7137.1; "Her EMEL:
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Eukaryora; Metazoa; Chordata; Craniata; Vertebrata; Euteleostom);
Actinopteryqii, Neopteryqii, Teleostoi; Euteleostoi; ostarlophysi;
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Prod No. 1.3e-41;
1; Mismatches 0
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Fram: Fronto4; hormone roe; l.
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Fram: FFO0105; zf c4; l.
FRAMS: F600398; STROHOSEMERE,
FRANTS: FROUNAZ; STROHOSEMERE,
                                                                                                                                                                                                                                                                                                 of DEC 2001 (TrEMBLIEF). Last sequence update) of DEC 2001 (TrEMBLIEF). Last annotation update) ESTERGEN RECEPTOR ALPHA.
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i SHeCELLULAR LocAlion: NUCLEAR (BY SIMILARITY).
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01.80N.2001 (TERMBLE). 17. Last sequence update)
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Siluritormes: Clariidae: Clarias.
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Jacobs J.J.L., Bogerd J.;
                                  ANVALUATED SIDSCL
                                                              SECUENCE FROM N.A.
                                                                                                                                    N. BILLIAXID 18013;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE LIVER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA binding: No lear protein, keeplor, Transcription requiation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PROSTIES PS00031; NUCLEAR RECEPTOR; 1.
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111111
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Local Similarity 92.0%; Fred. Wa, 1.5c-41;
hes 64; Conservation 2, Mismatches 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ST CYEVEN DE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CHEST OF BUILDING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        569 AA; 62846 MW; CFA9C1AD4376A53C CRC64
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   095JC1;
095JC1;
                    ol Nov-1996 (IFEMBLICL 01, Created)
61 Nov-1996 (IFEMBLICL 01, Last sequence update)
01 DEC-2001 (ICEMBLICL 19, Last annotation update)
                                                                                                                                                           014267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Random 3" RAME: a modification of 3" RAME in order to partially close (targe) closes."; Subscitted (AFE 2003) to the EMBL, "Notable databases. EMBL: XB4743: CAC37560.1; ".
ESTROGEN RECEPTOR-RELATED PROTEIN.
                                                                                                                               014267
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-DEC-2001 (TrEMBLIGEL 19, Created)
01-DEC-2001 (TrEMBLIGEL 19, Last sequence update)
01-DEC-2001 (TrEMBLIGEL 19, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          B. MERROTES
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                                                                                                                                                                                                                                                                                                                                146 CYEVOM 151
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hes 64; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                 61 CYEVOM 66
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           620 AA; 68043 MW; 8E7767DB1982A659 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          249 AA;
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                                                                                                                                                              PRELIMINARY:
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97.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          27918 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 480; DH 6;
Pred. No. 1.1e 41;
2; Mismatches 0
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                                                                                                                                                              7162366540164692 CRC64
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             Query Match
Best Local :
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8-17156.0
                                                                                                               Situation (Aib 2007) to the characteristic point databases LM0L_{\rm C}/\Delta V \approx 0.019 , \Delta\Delta K \approx 0.04 . It is
                                                                                                                                                                                                                                             Mammalia; Eutheria; Petartiodactyla; Ruminantia; Pecora; Bovoidea; bovidae; Caprinae; Oyis;
                                                                                                                                                                                                                                                                     Eukaryota: Metazea; Chordata; Craniata; Vertebrata: Euteleostemi;
                                                                                                                                                                                                                                                                                                  of ober 2001 (TrimmEtrel, 19, Greated) of ober 2001 (TrimmEtrel, 19, Last sequence update) of DEC 2001 (TrimmEtrel, 19, Last sametation update) ESPECIES RECEPTOR ALPHA (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRINIS: PROUD47; SIROIDFINGER,
SMARI: SMUD399; ZHF_C4; 1,
PK-SIIE; PSUD931; NUCLEAR_RECEPTOR: 1.
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[secolaw H.: Akhalat M.: Murphy L.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Edkuryola: Metazoar Chordatar Craniatar Vertebratar Enteleostomi;
Mummilia: Entheria: Primates, Catarrhini, Hominidae; Homes
                                                                                    N N I I EK
                                                                                                                                        "Estroden receptor dipha mRNA is stabilized by estradion endometrial adequateiness cell line.";
                                                                                                                                                                                                       SECTION TO SERVICE.
                                                                                                                                                                                                                               N.B. TaxID 9940;
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Plan: PF02257; RFX_DNA_binding; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N'R: _lax10 3606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Banc suplems (Human)
                                                                       SECTION'E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA binding: Nuclear protein: Receptor: Transcription regulation:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ptam: PPOULOS;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Characterization of estroyen receptor variant mRNAs from
                                                                                                                                                                                      LINSIE ENDOMINATION:
                                                                                                                                                                                                                                                                                       oris arios (Shoop)
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                                                                                                                                                                          527 MEASAS: 527
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SUBSTELLULAR LEGALISM: RUSTLEAR (BY SIMILARITY).
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                Similarity
                                                                        431 AA: 48694 MW;
   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      336 AA; 37309 MW; 812D2E6D35589604 CRC64;
                                                                                                                                                                                                                                                                                                                                                                            PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21 - 04 :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98.48;
97.0%;
               98.4%; Score 380; DB 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 380; DB 4;
Pred. No. 1.5e-41
                                                                                                                                                                                                                                                                                                                                                                            PRT:
                                                                       BAFR6CB88D7B1E94 CEC64;
 Mismatches
                                                                                                                                                                                                                                                                                                                                                                            431 AA.
                            DB 6; Length 431;
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RESULT 14
Q90WS9
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Q90ZM8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 97.4%;
Best Local Similarity 97.0%;
NON_TER
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SEQUENCE
                                                                                                                                                                                                                                   090ZMH:
01-DBC-2001 (FERMALTOL 19, Created)
01-DBC-2001 (FERMALTOL 19, Last sequence update)
01-DEC-2001 (FERMALTOL 19, Last annotation update)
ESTROGEN RECEITOR (FRAMMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Binding characteristics, transactivation properties and central expression of three estrogen receptor subtypes in zebralish."; submitted (SECZONI) to the EMBL/APRIMENTATION databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   odrugamio rerio (Zebratish) (Zebra danio).
Bukaryota; Metazea: Chordata: Craniata; Vertebrata; Buteleostomi;
Actinopterydii; Neopterydii; Teleostei; Buteleostei; estariophysi:
Cypriniformes; Cyprinidae; Danio.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 090WS9;
01-bEC-2001 (TrEMBLIGE. 19, Created)
01-bEC-2001 (TrEMBLIGE. 19, Last sequence update)
01-bEC-2001 (TrEMBLIGE. 19, Last annotation update)
                                                       "Evolution of vertebrate steroid receptors from an uncestral estimacu receptor by fluand exploitation and serial genome expansions."; From Natl Acad. Sci. U.S.A. 98:5671-5676(2001).
                                                                                                                                                                                                          Petromyzon marinus (Sea lamprey).
Enkaryota: Metazoa: Chordata: Graniata: Vertebrata: Hyperoantia:
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ZFER-BETAL.
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                                                                                                                                                                            Petromyzontiformes: Petromyzontidae: Petromyzon.
NCBI_TaxID 7757;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID: 7955;
                                             Receptor
                                                                                                                                   MEDLINE 21244662; PubMed 11331759;
                                                                                                                                                                                                                                                                                                                  090ZM8
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                                                                                                                      Thornton J.W.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           592 AA; 66046 MW; 7F65218E2C03F1B8 CRC64;
   554 AA,
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   6.1324 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1; Mismatches
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Pred. No. 9.2e-41;
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                                                                                                                                                                                                                                                                                                                  PRT:
   9E7ACBB7933DF47F CRC64;
                                                                                                                                                                                                                                                                                                                   554 AA
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Best Local Similarity 95.5%; Pred. No. 8.8e 40;
                                                                                    Kim S.J., Kei G., Takemura A., Nakamura M.;
"Partial sequence and expression of androgen and estrogen receptor
genes in the protogynous wrasse, Hallebories trimaculatus.";
Schmiffed (DEC 2000) to the EMML/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             of MAR 2001 (TERMBLICH, 15, Cheated)
of MAR 2001 (TERMBLICH, 15, Last sequence update)
of DEC 2001 (TERMBLICH, 15, Last annotation update)
ESTROGEN RECEIVE (FRANMENT).
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Submitted (MAY 1999) to the ERBS, "Stane, 2008. Jutabases.
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01 DEC 2001 (TERMBLE). 19, Last sequence update)
01 DEC 2001 (TERMBLE). 19, Last annotation update)
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Aetinopterydii; Neopterydii; Teleostei; Euteleostei; Reofeleostei;
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NCRT TaxIP 1994;
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Bukuryita, Mitabaa, Chaidata, Chaniata, Vertibrata, Chandrichthyes.
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                                             SOBURLLOLAR LOCATION, MUCLEAR (BY SIMILARITY)
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                                                                                                        Query Match 93.8%;
Bost Local Similarity 92.4%;
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Best Local Similarity 95.5%; Pred. No. 5.8e-40;
                                                                             Matches 61; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        mRNA in reproductive tissues of adult male goats.";
Submitted (MAR 2000) to the LMMA, 5 deno; 1998 databases
; SUBMELLHAR LOCATION: NUCLEAR (BY SIMILARITY).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01:JUN 2001 (TEMBLEEL 17, Created)
01:JUN-2001 (TEMBLEEL 17, Last sequence update)
01:HEC 2001 (TEMBLEEL 19, Last annotation update)
                                                                                                                                                                                                                                                                                                                                  Zinc-tinger.
                                                                                                                                                                                                                                                                                                                                                                     PROSITE: PS000-0: NUCLEAR RECEPTOR: 1.
DNA binding: Nuclear protein: Receptor: Transcription regulation:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HSSP: P03472; 1HCQ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  *! SIMILAKTIY: RELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY. EMBL. AP251192: AAK28730.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Manson: M.M., Machen M.R., Parleton B.J., Wiley A.A., Wower J., Bartol E.F., Goyal H.O.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Enkaryota: Metazoa: Chordata: Cianiata: Vertebrata: Enteleostoni:
Mazmelli, Liberii, Stirll be'zia: kominantia: Lecora: Bozoidea:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Capra bireus (Goat)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CARDX3:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5 ХПЯБ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE: 458 AA; 51319 MW; 0194823321111277 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Zime tinger.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA-binding; Nuclear protein; Receptor; Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PROSITE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SMART; SM00430; HoLL; 1.
SMART; SM00399; ZnF_C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRINTS; PROD 698; STROIDFINGER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Piam; PE00104; hormone_rec; l. Ptam; PE00106; zi c4; l.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          listerPro: TER000536; Hormone ree_liq.
InterPro: TER001723; Strdhormone_reee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL: AF326201; AAG48341.1;
HSSP: P03372; TERR.
                                                                                                                                                                                                                                                                SECULIANCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                   SMART: SM00399; ZnF_C4; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Expression and molecular characterization of estrogen receptor alpha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE EPIDIDYMIS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SECTENCE PROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               $2.00 TENE 01.00
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IsterPro: IPR001628; 21 C4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRINTS: PRODU47; STROIDFINGER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ptam; PF00105; Zf C4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            InterPro: IPR001628; 21~34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SE MOVEN BB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99 MDABAD 19
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                                                                                                                                                                                                                                                            1
127 AA; 14287 MW; AE84DFR41FE98AB8 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ...
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    Mismatches

                                                                                                            Score 362; DB 6;
Prod. No. 1.3e 39;
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                                                                                                                                                       DB 6; Length 127;
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                                                                             2; Indels
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Al-DEC-2001 (ITEMBEROL 19, Created)
Al-DEC-2001 (ITEMBEROL 19, Last Separate apdate)
Al-DEC-2001 (ITEMBEROL 19, Last senioration update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           YON TEX
              Plans PROCIDA: hormono reco 1.
Plans Procincs: ZI-CA: 1.
Plans Procincs: ZI-CA: 1.
PLANS: PROCEDS: ZI-CA: 1.
PRINTS: PROCEDAT: ZIGOTHADER.
                                                                                                                                    EMBL: AF253662: AAG44622.1; -. HSSP: F04472; HFCQ. HOTMODO_rec_lig.
                                                                                                                                                                                                                                                                                                                                      Micropterus salmoides (Largemonth bass).

Lakaryota: Metazea: Chordatu; Craniatu: Vertebrata; Buteleostemb;

Actinopteryali: Neopteryali; Teleostei; Enteleostei; Meoteleostei;

Actanthomorpha: Acanthopteryali; Percomorpha; Perciformes; Percoide

Centrarchidae: Micropterus.

MCPI_faxtb_3776;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ward X. H., Das S.K., Paria H.C.;
"Mesowrice us auratus estrogen receptor beta (Esr2), mRNA sequence.",
Submitted (JUN 2001) to the EMMIL APROVESS AAK77002.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mesocricetus anratus (Golden hamster)
Bukaryota: Metazoa; Chordata; Craniat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              E 7.
                                                                                                                                                                                           however (1.1., Sabe-Arthwood T.L., Denslow N.D.)
"Laranmorth Bass Estroden Receptor Subtype | Partial cond Sequence.";
"Laranmorth (ATE 2005) to the LABLACTER ASSESSED BASESSED |
1- SUBSTELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
1- SUBSTELLULAR LOCATION: NUCLEAR HOPMONE PECEPTOPS FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mammalia: Euthoria; Rodontia; Sciurognathi; Muridae; Cricetinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ESTRAGEN RESERVA BETA CHRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ESTE WIEN RECEPTOR SUBTYPE I (FRAGMENT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CADDZ4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Note: laxID lod36;
  SMAKI;
                                                                                                    InterPro: [PR06]628; 2f-04
                                                                                                                                                                                                                                                                                                        SEQUENCE DEM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99DDZ4
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                                                                                                                       1:.terPro; [PR00]723;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Si-MAR-2001 (TrEMBErel. 16, Last sequence update)
51-150-2501 (TrEMBErel. 19, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-MAR-2001 (TrEMBLEOL. 16, Created)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 CAVESHTASGTHTGVMSTEOCKAFFFESTGERNOVICPAINGTTIDENERESCONCELE 59
SM00430;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRELIMINARY:
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                                                                                                                   Strdhormone_receptor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     335 AA.
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Best Local Similarity 93.1%;
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                                                                                                                                                  Q9HCH2 PRELIMINARY: PRT; 262 AA.
Q9HCH2; PREMBLrel. 15, Greated)
Q1-MAR-2001 (TrEMBLrel. 15, Last sequence update)
Q1-MAR-2001 (TrEMBLrel. 15, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NON_TER
                            Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Esteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pfam; PF00105; 71-C4; 1.
PRINIS; PK00047; STROIDFINGER.
SMART: SMOU499; ZnF_C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sabo-Attwood T.L., Rowman C.J., Denslow N.D.;
"Largemonth Bass Estroyen Receptor Sublype II partial chNA.";
"Landemonth Bass Estroyen Receptor Sublype II partial chNA.";
"Lethirted (AIE 2000) to the IMME, Zennank, 2000 databases.
-1- SUBCELLDIAR LOCATION: NUCLEAR (BY SIMILARITY).
-1- SUBCELLDIAR LOCATION: NUCLEAR (BY SIMILARITY).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-MAR-2001 (ITEMBLIEF, 16, Last sequence update) 01-DED-2001 (ITEMBLIEF), last annotation update) ESTROGEN RECEPTOR SUBTITIE II (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q9DDZ3;
01-MAR-2001 (TrEMBLrel, 16, Created)
01-MAR-2001 (TrEMBLrel, 16, Last seq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SMART, SHOOPE, Enr_C4; 1.
DNA-binding: Nuclear protein: Receptor: Transcription regulation:
                                                                                                Homo sapiens (Human)
                                                                                                                                   HERRH2 (FRAGMENT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Centrarchidae; Microptenus. NCBI_laxID 27706;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterydii; Neopterydii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterydii; Percomorpha; Percitormes; Percoidei;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1.2dd60
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NCHI_TAXID 9505;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; AF253063; AAG44623.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Microphorus Salmoides (Largemouth bass)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Zinc-tinger.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Zinc-tinger.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HSSP; PSF372; 1HCQ.
InterPro: 1PR001628: 21-C4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SMART, SMCC299,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15 VWSCEGCKAFFAKSTOGHNDYTCTFALNOCLLDKNKKASCOACKLKKCYEVOM 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        F.s., Weard, Order Order Statement Control of the Control of Contr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        H. SCYHYDYWOODGCKAFFENGOLEGHNEYICHAALNGCLLURNRERSCOOKEROEKEYDVOM 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1
155
155 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          335 AA; 3776H MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3.
5 ⊷
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17698 MW:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            78.0%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 301; DR 13;
; Pred. No. 1.40-31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 319; DB 13;
Pred. No. 1,4e-33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                90F118795D049222 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PŘI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       40EBAE950000497F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 185;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 335;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C) Gaps
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RESEES:
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6.31SIAn.O. 8.7 LUTHISHAM
                      Adams M.D., Celbiker S.E., Holl R.A., Evans C.A., Gocayne J.D.,
RA Adams M.D., Celbiker S.E., Richards S., Ashburner M., Henderson S.N.,
RA Amanatides P.C., Scherer S.E., Richards S., Ashburner M., Henderson S.N.,
RA Geste R.A., Lowis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Geste R.A., Lowis S.E., Richards S., Ashburner M., Heritter H.D.,
RA Richards R.C., Roders Y. H.C., Blazer R.C., Champe M., Profitter H.D.,
RA Man K.H., Loyle C., Razer F.C., Bell R.C., Nolson C.R., Miklos G.L.G.,
RA Molil J.F., Asbayani A., An H.-J., Andrews Plannkoch C., Baldwin D.,
RA Herison K.Y., Renos P.V., Herman B.P., Bhandari D., Rolshakov S.,
RA Herison K.Y., Renos P.V., Herman B.P., Bhandari D., Rolshakov S.,
RA Herison K.Y., Renos P.V., Bernach H.P., Cadicu E., Center A., Chandra L.,
RA Herison D.A., Bustellan B.P., Brokstein P., Heritter P.,
RA Huttis K.C., Rusan D.A., Butler H., Cadicu E., Center A., Chandra L.,
RA Herison K., Lomp L.E., Lowies M., Dadan Racha S., Dunkov B.C., Dunn P.,
RA Hedson K., Lomp L.E., Lowies M., Dadan Racha S., Dunkov B.C., Dunn P.,
RA Hodson K., Lomp L.E., Lowies M., Dadan Racha S., Dunkov B.C., Dunn P.,
RA Glodek A., Gang P., Gorrell J.H., Gu Z., Cebart W.M., Glasser K.,
RA Harris N.L., Barvey D., Heilman T.J., Heranndez J.R., Burck J.,
RA Harris N. L., Rackers A. Dostand T.J., Heranndez J.R., Burck J.,
RA Harris N. L., Rackers A. Dostand T.J., Heranndez J.R., Burck J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Rest Local Similarity
Matches 48; Conser
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Submitted (RAC 2000) for Hachmark for all hallows.

STHEWELLHAR FEEANTENE METHAR (RY SIMILARITY).

STHILLHAR ITY: HELONIS TO THE NUCLEAR HORMONE RETEPTORS FAMILY.

EMBL. AND 544 & AARZY617.1;

EMBL. AND 544 & AARZY617.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Prosophila melanodaster (Fruit Fly).
Bukaryata, Metabad, Arthepada, Tachbadad, Beadpada, Insecta,
Proryactar, Neophera, Endoptorygota, Diptera; Brachycera; Muscomorpha;
Eydyyfroidea; Drosophilidar: Drosophila.
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ol MAY 2000 (TEMBLEEL 13, Cast Sequence update)
ol-58% 2001 (TEMBLEEL 19, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRINTS, PROGRAM, STROBORMONER, PRINTS, PROGRAM, STROBERNER, START, STRAFT, LARGE CO., SEART, LARGE CO., PROSTITE, PROSTITE, PROSTITE, PROGRAM, PROSTITE, PRO
Hostin D., Houston K.A., Howland T.J., Wei M. H., Theqwam C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRAIN BURKELEY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CG7404 PROTEIN (GH2830HP).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GUASES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6.35Anō
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE REZ AA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ella Lingel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DNA binding; Nuclear protein; Receptor; Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPros 199001723; Stidbormone receptor.
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Sada M., Dickhoff R., Flectwood F., Harrison G., Kaur A., Madan A.,
Nesbirt R., Traimoff R., Hood L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VIN HEAL LANGERS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SECUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Printed Survey
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9.9 MUASTA, 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20106008; PubMed 10231182;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Compet at 150
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24.7
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72.79; Fred. No. 4.4e 28;
curice c; Mismatches 13; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28203 MW: 94FA8979AC2D43D3 CRC64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21 64.
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                                                                                                                                                                                                                                                                                                                                                                   RESULT 24
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KA Lisk F. Kudira C.E. Karali C. Krawilz S. Kulp D. Lai Z.,

KA Lisk F. Kudira C.E. Karali C. Mellood M.P. Metherson D.,

KA Herkeley G. Meltshim N.V. Kebrity C. Merlis J. Moshieli A.,

KA Herkeley G. Melshim N.V. Kebrity C. Merlis J. Moshieli A.,

KA Herkeley G. Melshim N.V. Kebrity C. Merlis J. Moshieli A.,

KA Herkeley G. Melshim N. Karali K. Memberi B.K. Did K. Diseleh J.M.

KA Herkeley G. Melshim N. Karali K. Memberi B.K. Did K. Diseleh J.M.

KA Herkeley G. Melshim K. Karali K. Memberi B.K. Did K. Did C. Shee H.

KA Herkeley G. Keminaton K. Saunders K.D.C. Schweler F. Shee H.

KA Keinert K., Keminaton K., Saunders K.D.C., Schweler F. Shee H.

KA Spier E. Sjøn Klares C. Simpseu M. Styngsfi M.F. Smith I.

KA Spier E. Spaudling A.C. Stapleton M. Strong R. Sun E.

KA Williams S.M. Wendage T. Werter R. Venter E. Wang A.H. Wang X.

KA Milliams S.M. Wendage T. Werley K.C. Wu D. Yang S. Yao C.A.

KA Milliams S.M. Wendage T. Werley K.C. Wu D. Yang S. Yao C.A.

KA Gibbs K.A. Myers E.M. Rubin G.M. Venter J.C.

KI Schene 287.2185 2195(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local
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SERAIN Y, CN BW SP;
STRAIN Y, CN BW SP;
STRAIN Y, CN BW SP;
Stapleton M., Brokstein P., Hong L., Adbayani A., Carlson J.,
Champe M., Chavez C., Dorsett V., Farian D., Frise E., George R.,
Champe M., Chavez C., Dorsett V., Farian D., Frise E., George R.,
Champe M., Chavez C., Dorsett V., Farian D., Kranda A., Mondall C.J.,
Banco J., Farich J., Farain V., Eirk S., Physiochemical S., Wir K.,
Yu C., Lowis S.E., Rubin G.M., Colniker S., Physiochemical S., Wir K.,
Yu C., Lowis S.E., Rubin G.M., Colniker S., Physiochemical Colleges

Separation (April 2004) 10 the physiochemical PDRJ databases.

-1 - SUBCELULAR LOCATION: NUCLEAR (BY SIMITARITY).
                                                                                                                                                                                                                                                                                        90BH 60
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA binding; Nuclear protein; Receptor; Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRINTS, PRO0398; STRUHORMUNEK, PRINTS, PRO0397; STRUHETINGEK, SMART; SM00440; HOLL; L. SMART; SM00399; ZDF_C4; L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ptam: PF00104; hormone_rec; 1. Ptam: PF00105; pt c4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       : $ (MILARITY, BLD/BD, I'' IB
EMBL: AE003556; AAR50473.1;
EMBL: AY051632; AAK94056.1; -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PROSITE: PS00031: NUCLEAR_RECEPTOR: 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro: IPR001628; z1-C4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      InterPro; IPR001728;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FlyBase; FBqn0035849; CG7404.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HSSP; P03372; 1HCg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             InterPro; IPR000536; Hormone_rec liq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    175 CLLMGM 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 174 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                h 67.9%; Score 262; DB 5;
Similarity 66.7%; Pred. No. 5.5e 26;
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                                                                                                                                                                                                                                                                                            PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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                                                                                                                                                                                                                                                                                            710 AA
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Q91805; 01 of 1 2000 (FEMBLEEL 15, Created) 01 of 2000 (FEMBLEEL 15, Last sequence update) 01 DEC 2001 (FEMBLEEL 19, Last annotation update) PROMESTERONE RECEPTOR.

Eukaryota; Metazoa; Chordata; Cianiata; Vertebrata; Euteleostono;

Auquilla japenica (Japanese eel)

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KESULI
999ZM7
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             Guery Match
Best Local :
Matches
                                                                  SEQUENCE
                                                                                                                                                                                                                                  Petromyron marinum (Sea lamprey).
Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Hyperoartia:
Petromyroniiformos: Petromyroniidae: Petromyron
                                                                                                                                                                                                                                                                             01-DEC 2001 (TrEMBLEEL 19, Greated)
01-DEC 2001 (TrEMBLEEL 19, Last sequence update)
01-DEC 2001 (TrEMBLEEL 19, Last annotation update)
CORTICOID RECEPTOR (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SMART; SM00430; BOLT; 1
SMART; SM00399; ZnF_C4; 1.
PROSTTE: PSO0031; NUCLEAR_PROFUED; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PHAME PRODIOS ETCS 1. Prame PRODIOS ETCS 1 NOWWERL PRINCES PRODOSS STRUDGERNORER. PRINCES PRODOSS STROIDFINGER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FERS Lett. 465:12-17(2000).
-!- SURCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
-!- SIMILARITY: RECONCE TO THE NUCLEAR HORNONE RECEPTORS FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Yoshikuni M., Yamauchi K.. Nagahama Y.;
"Characterization of a testicular 17,20-dihydroxy-4-pregnen-3-one (a
spermuation-inducing steroid in fish) receptor from a teleost,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Actinopteryqii: Neopteryqii; Teleostel; Anguilliformes; Anguilloidel;
Anguillidae; Anguilla.
NENI_TaxID-7937;
                                                                                                           "Exwlution of vertebrate steroid receptors from an accestral estrogen receptor by lidead exploitation and serial genome expansions."; Prov. Natl. Acad. Sci. U.S.A. 98:5671-5676(2001). Eds.: AY928457: AAK10930.1) .
                                                                                                                                                                                                                                                                                                                                                     Q902M7
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SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      InterPro: IPR001723; Strdhormone_receptor.
InterPro: IPR001628; zf-c4.
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                                                                                                                                                                                                                                                                                                                                         Q90ZM7;
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                                                                                                                                                                                MITTLINE 21244662; PubMed 11331759;
                                                                                                                                                                                                SECUENCE FROM N.A.
                                                                                                                                                                                                                         NCBI_TaxID=7757;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Japanese eel (Anquilla )aponica).";
                                                                                              Receptor
                                                                                                                                                                  Thornton J.W.;
                                                                                                                                                                                                                                                                                                                                                                                                                         402 CYOAGM 407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 CYEVGM 66
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بر
روا
                                                                    438 AA;
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Conservative
                                                                                                                                                                                                                                                                                                                                                     PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    65 3%; Score 252; DR 13; 59.1%; Pred. No. 1.6e-24;
                                                                    48935 MW;
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           59.14;
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           Score 240: DB 13:
Pred. No. 3.7e-23;
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                                                                    BB6FEE6637BFE471 CRC64;
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                                                                                                                                                                                                                                                                                                                                                     438 AA
                         DB 13: Length 438;
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17;
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Q9DEV4
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SN DT DT AC
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Best Local Similarity
                                                                                                                                        Q13771
Q13771;
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Rayaa M. Booth R.A., Sheng Y. Liu X.J.;
"The classical projecterone receptor mediatos Xemopus excepto maturation through a nongenomic mechanism.";
Froc. Natl. Acad. Sci. U.S.A. 97:12607-12612(2000).
Froc. Natl. Acad. Sci. U.S.A. 97:12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-12607-1260
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01-MAR-2001 (TrEMBLIELL
01-DBC-2001 (TrEMBLIELL
                                              01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA binding, Nuclear protein; Receptor; Transcription regulation:
Zinc-tinger,
SEQUENCE 583 AA; 66156 MW; 638D3572C32BD86C CKC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SMART; SM00430; HOLL; 1.
SMART; SM00399; ZDF_C4; 1.
PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Enteleostomi;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRINTS: PRO0398; STRUHORMONER. PRINTS: PRO0047; STROTUFINGER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pfam: PF00104; hormone_rec; 1. Pfam: PF02161; Prog_receptor; 2. Pfam: PF00105; zf-C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        InterPro: IPR000128; Progest_receptor.
InterPro: IPP001723; Stidhormone_receptor.
InterPro: IPP001628; zf-c4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HSSP; P06536; 1KGD.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Xenopodinae; Xenopus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Amphibia; Batrachia: Anura; Mesobatrachia; Pipoidea; Pipidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Xenopus laevis (African clawed frog)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  InterPro; !PP000546; Hormone_rec_lig.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            128 CIQAGM 133
                                                                                                                                                                                                                                                                                                                            276 CCQAGM 281
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                                                                                                                                                                                                                                                                                                                                                                                61 CYEVGM 66
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                                                                                                                                                                       PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61.9%; Score 239; DH 13;
57.6%; Pred. No. 6.7e-23;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10: Mismatches
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                                                                                                                                                                          PRT;
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                                                                                                                                                                             730 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 H.
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ANDROGEN RECEPTOR

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         97
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Patrus major (Red sea bream) (Chrysophrys major).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Entefeostomi;
Aetimoplerydii; Neoplerydii; Teleostei; Entefeostei; Neoteleostei;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                of NeV 1998 (IEEMBGrel, 08, Created)
of NeV 1998 (IEEMBGrel, 08, Last sequence update)
of 600 zool (IEEMBGrel, 19, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Specific region in hormone binding domain is essential for hormone binding and trans activation by human androgen receptor."; Mol. Endocrinol. 4:447/427(199).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Acanthomorpha: Acanthopteryqii; Percomorpha; Percitormes; Percoidei;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AND ROBER RECEPTOR.
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Mammadia: Eutheria: Primates: Catarrhini; Hominidae; Homo.
                                                                                                                                                H33F; P055-6; 1Rdb.
                                                                                                                                                                                                  EMBL; ABO17158; BAA33451.1;
                                                                                                                                                                                                                                                                                                                                    Biochim, Biophys. Acta 1450;481-485(1999)
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                                                                                                                                                                                                                                                                                                                                                                                                                                   "Simple Here:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Yokoyama Y.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Touhata K., Kinoshita M., Tokuda Y., Toyohara H., Sakaquchi M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDITINE 33.879128; bulkmed 10.835360;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sparidae: Pagnus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EMART: SMOOK99; ZEF, 04; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SMART: SMOO4 (0) HOLL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRINTS: PROGO47: STROIDFINGER
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Plans PE00105; zf C4; 1.
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Interfro: IPROBIGZB: Zf C4.
                                                                                                   Intertuo; IPROUTIO3; Androgen recep.
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                                                                                                                                                                                                                                     SIMILARITY: MILEGAS TO THE NUCLEAR (BY SIMILARITY).
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P06536; PGDC.
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                                                      1980000536;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Yamashita S.a
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                                                                                                                                                                                                                             Kelley D.B., Kamenetz F.R., Kelley D.B., Badea T.C.,
Submitted (DEC-1998) to the EMBLYANGAR-KAPIDEA databases.
SIBSTILIANA DATA DATA BURLIAN (BY SIMILARITY).
TESIMILARITY: BELONGS TO THE NUCLEAR HORMONE RETERIORS FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-FEB 1997 (TrEMBLIGEL 02, Created)
01-JAN 1999 (TrEMBLIGEL 09, Last sequence update)
01-DEC 2001 (TELBMRIGEL 19, Last annotation update)
ANDROGEN RECEPTOR ALITHA ISOFORM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Plam: PF02166: Androgen recept 1. Plam: PF00104: hormone_rec; 1. Plam: PF00105: z1-04: 1.
             PROSITE: PS00041: NUCLEAR RECEPTOR: 1.
PMA binding: Rectear protein: Receptor: Transcription regulation:
                                              SMART: SMOD430; HOLL: 1.
SMART: SMOD399; ZhF [C4; 1
                                                                             Plan: PF02166; Androden recep: Pram: PF00164; hormone_rec; 1. Pram: PF00105; z 1 c4; 1. EKINTS: PR00047; STROIDFINGER.
                                                                                                                                                                                               HSSP: P06536: 16D0
                                                                                                                                                                                                                                                                                                                                           Fischer L.M., Catz D., Kelley D.B.;
"Androgen-directed development of the Xemopus Taevis Taryux:
of androgen receptor expression and fissue differentiation."
                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A. MEDILINE 95324753; PubMed 7601302;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUEENCE FROM N.A. MEDILINE 94476782; PubMed 7690145;
Zinc-tinger
                                                                                                                                                                                InterPro: IPR001103; Androgen_recep
                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                               Dev. Biol. 170:115-126(1995)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            "An androden receptor \mathsf{mkNA} isotorm associated with hormone induced cell proliteration.":
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Fischer I., Catz D., Kelley D.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Xenopodinae; Xenopus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bakarjota, Metanoa, Chordata,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Xenopus Laevis (African clawed frog)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               XI. ALPHA AK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               P7004H;
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SEQUENTE 798 AA; 86973 MW; 9E7FC136CCC3906 CRC64;

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7 '! SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).

1 'SIMILARITY: HELLOGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.

1. RESENTATION: RECORD 1. '.

RESENTATION: PROBLEMS FOR THE NUCLEAR HORMONE RECEPTORS FAMILY.

1. RESENTATION: PROBLEMS AND TOTAL PROBLEMS FAMILY.

1. REPORT OF THE STANDARD FOR THE STANDARD FOR THE PRINTER PROBLEMS FOR THE PROBLEMS FOR THE
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Hest Local Similarity 59.16; Pred. No. 1e-22;
Matches 60; Conservative 8; Mismatches 19; Indels
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No. 9.1e-23; Matches 40; Conservative 8; Mismatches 19; Indels
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MEDILINE 205-9124; EnhMed [1086548;

Histor of but N., Ferschsill S., Schoollander K., Wimmers K.;

"A Liddly polymorphic repetitive polypyrimidine/polyporine (CCITI)n sequence in the 5° untranslated sequence of the porcine androgen preceptor gene.";
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H-MAR-2001 (ILEMBLIE), 16, Last sequence update)
H-MAR-2001 (ILEMBLIE), 15, Last annotation update)
ANLEGGEN RECEPTOR AR.
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11111 - 11111 + 111111 | 111111 | 111111 | 111111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111
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; Patent No. 5958710
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COMPUTER REALABLE FORM:
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Sequence 7, Application US/08836620A
Patent No. 5958710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Guery Match 79,9%; Score 944; BB 2; Length 220; Rost Local Similarity 93.4%; Pred. No. 1.6e-105; Indels 0; Gaps
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FILING DATE: 15-MAN.
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GR 9607532.0
APPLICATION NUMBER: 11-APR-1996
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158 Frahil navidal vovial schleschesmal anlimitishvehasnegmehlinmegenv 217
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RESULT 11
US-08-764-870-12
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US-08-764-870-12
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APPLICANT: Baxter, John D
APPLICANT: Eletterick, Robert
APPLICANT: Wagner, Richard L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REGISTRATION NUMBER: 35,966
REFERENCE/SWEET NUMBER: UNAL-146/01U5
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION DATA:
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ATTORNEY/AGENT INFORMATION:
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OPERATING SYSTEM, PC DOS/MS-POS
SUBTWAPE: Patentin Belease #1.0, Version #1.30
                                                                                                                                                                                                                y Match 64.3%; Score 759; DB 4; Length 595; Local Similarity 50.2%; Pred. No. 1.4e-82;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE:
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FILLING DATE: 14-15-7-1446
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APPLICANT BAXTOT, John D.
APPLICANT Flatterick, Robert J.
APPLICANT Manner, Richard L.
APPLICANT Kushor, Peter C.
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ERIOR AFFLICATION DATA:
                                                                                                                     CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  119 KERELKI,QHKEYI,CVKAMTILINSSMYPI,VTAT QDADSSKKLAHLLNAVTIVALVWVTAKS 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     374 DQVHLLECAWLETLMTGLVWRSMEHPVKLLEAPNLLLDRNQGKCVEGMVELFUMLLATSS 433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       415 MVSALLDAEPP-ILYSEYDETRPESEASMMOLLINLADRELVHMINWAKRVPGEVDLILH 323
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COMPUTER: THM PC compatible
STREATING STREAM. PC DESYMS-DOS
                                                                     ADDRESSEE:
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San Diego
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                              4870 La Johla Village brive, Suite 700
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TELEPHAX: (619) 535-8949
TNFORMATTON FOR SEQ TO NO: 35:
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REPERINDE/DOWNER BELLES MARINEALTON, INFORMATION,
IELEPHONE: (615) 5 (5 900)
                                                                   ABOUTANT OF SEPTIMENTAL OF SEPTIMENT OF SEPT
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SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT ACCULATION DATA:
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COMPUTER: HWM PC COMPATIBLE
MEDIUM TYPE: Plappy disk
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No. 1.7e-81; Matches 140; Conservative 52; Mismatches 41; Indels
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TITLE OF INVENTION: Inducible Expression System
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                                                                                          NAME: Francis, Carol L
REGISTRATION NUMBER: 36,513
EEFEEENCE/FECKET NUMBER: 6510-055001
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CLASSIFICATION: 435
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63.5%; Score 750; DB 3; Leigth 773; Best Local Similarity 59.7%; Pred. No. 2.5e-81; Matches 141; Genservative 54; Mismatches 87; Indels
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                                                                                                                                                                                                                                                                   MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-LOS/MS DOS
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HENERAL INDENMATION:

APPLICANT: BAXTOT, John D

APPLICANT: Floaterick, Robert J

APPLICANT: Wanter, Richard L

APPLICANT: Wanter, Richard L

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APPLICANT: West, Brian

ITTLE OF INVENTION: Nuclear Receptor Ligands and Ligand

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Extent No. 62/6946
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INF-RMAIL N FOR SEQ ID NO: 14:
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FILLING DATE: 14-DEC-1995
FWL: K APPLICATION NUMBER: US 60/008,605
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APPLICATION NUMBER: 08 50/008.540
ETITANI DATE: 13-DEC 1995
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FERISTRATION NUMBER: 45,966
REFERENÇÃO TELL NUMBE, 11AL 216/01US
TELEPOMMULICATION THYOKMATION:
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AUTORNEY/AGENT INFORMATION:
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LENGTH: 933 amino acids
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SUMMARIES

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| t., | r. | 61.1 | 742 | | भंदरमान | Throughtimid rec |
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| | • | | | ٨ | A30455 | |

| RESULT 2 JW0046 estrogen receptor beta2 - rat BAIt thate manes: Ekketa2 G. Species, battus for verious (Worwa, tat) G. Species. Battus for verious (Worwa, tat) G. Date: 17-Jun-1998 #sequence_revision 10-Jun 1998 # G. Dates: 17-Jun-1998 #sequence_revision 10-Jun 1998 # G. Paression: JW0046 E:Mareyama, K.; Endeb, H.; Sharki-Marka, H.; Kanev. Biochem: Biophys. Res. Commun. 246, 142-147, 1998 A:Itite: A novel isoform of rat estrogen receptor be A:Reference number: JW0046 A:Reference number: JW0046 A:Residues: 1-504 sMAR+ | QY 61 CYEVGM 161 Db 156 CYEVGM 161 | Query Match [00.0%; Score 386; DB 2; Length 477; Best Local Similarity [100.0%; Pred. No. 2.2e-32; Matches 66; Conservative 0; Mismatches 0; Indels 0; G [11] [1] [1] [1] [1] [1] [1] [1] [1] [1] | A; Mother the type: mkNA A; Mother the type: mkNA A; Residues: 1-477 kM/s. A; Cross references: EMBL; X99101; NID:q1518262; PIDN:CAA67455.1; FID:q15 A; Cross references: EMBL; X99101; NID:q1518262; PIDN:CAA67455.1; FID:q15 C; Supertamily: estroque receptor: erbA transforming protein steroid binding: ster C; Mother to the transforming protein homology ERBA F; 94 SC; Comain: erbA transforming protein homology ERBA F; 96-116/Region: zinc finger CCCC motif F; 132-186/Region: nuclear location signal F; 167-182/Region: nuclear location signa | RESULT 1 871400 estroden receptor beta human (:Species: Home sapiens (man) 6:Date: 29-Jan 1998 #sequence_revision 06 Feb 1998 C:Accession: 871400 R:Mosselman, S.: Polman, J.: Di)kema, K. FEBS Lett, 492, 49-53, 1996 A:Tille: ER-beta: identification and characterizat A:Reference number: 871400; MHID:96348875 A:Accession: 871400 | ALIGNMENTS | 30 232 60.1 923 2 153280 31 232 60.1 930 2 A25923 32 232 60.1 933 1 QRHUP 33 232 60.1 981 2 A41401 34 232 60.1 984 2 A29413 35 231 59.8 450 2 R47265 36 231 59.8 450 2 A35602 37 227 58.8 450 1 C3591 38 226 58.5 443 1 C3591 40 226 58.5 444 2 B34714 41 226 58.5 454 1 A34903 41 226 58.5 458 2 A44714 42 226 58.5 458 2 A44714 43 226 58.5 458 2 A44714 44 224 58.0 390 2 S44285 |
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Cocomment: This protein functions as a negative regulator of estrogen action. Cocoper Lamily: estrogen receptor; ethA transforming protein homology
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C:Keywords: DNA binding: macteus; phosphoprotein; steroid binding; steroid hormone receptor, 174/Jounarm; amino terminal NH2;
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A; Chass references: dB:LZ0745
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Moi. Endoerinoi. 1, 65-662, 1987
A/Title: The Xenopus laevis estragen reseptor seepesse hoselegy with boman and astam of
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cispedies: Xemajos laevis (African clawed frog)
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Richem, Rioghys, Res. Commun. 24., 122-126, 1998
A:Title: The complete primary structure of buman estrogen receptor beta (hERbeta) and it
A:Reterence number: JC50.9; MUID:98139878
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C:Date: 05 Feb 1999 #sequence revision 05 Feb 1999 #text_change 21:Jul 2000
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239 CYEVGM 244

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F:178 Zul/Region: zine tinger cocc motif
F:214-247/Region: zine tinger cocc motif
F:215-266/Region: nuclear location signal
F:225-244/Domain: steroid binding #status predicted *STB*
F:2292-544/Domain: steroid binding #status predicted
F:180, B3, 147, 200, Binding site: zine (Cys) #status predicted
F:216, 222, 242, 245/Binding site: zine (Cys) #status predicted
F:231/Binding site: plasphate (Ser) (covalent) #status predicted
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C;Superfamily: estrogen receptor; erbA transforming protein homology
C;Keywords: DNA binding: nucleus; phosphoprotein; steroid binding; s
Fil-173/Hamain, amin, terminal NB2>
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ReKrust, A.: Green, S.: Arqos, P.: Kumar, V.: Walter, P.: Bornett, J.M.: Chambon, P.
EMBO J. 5, 891-897, 1986
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E:177-200/Kegion: zine finger CCC motif
E:214-235/Kegion: zine finger CCC motif
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A; Residues: 1-256, 'E', 258-589 - KRU+
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A:Status: not compared with conceptual translation
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            61 CYEVEM 65
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Actional the recover: EMMCLX73672: NHO-579865; PHDN:SAA51528.1: PHD:d939886
Actional the authors translated the codon GPG for residue 400 as Val
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A:Accession: $27144
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Science 231, 1150-1154, 1986
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Cancer Res. 58, 741-743, 1993
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A:Residues: 1-115 FKEA+
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A:Note: Sequence of the Arm to the Arm to the frequenties of economics and their receptors are involved in the regulation of economics and their receptors are thought to be weakly because it the absence of liganal steroid bornone receptors are thought to be weakly
.mp.ex appears to recognize discrete DNA sequences upstream of transcriptional start si
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Mir Creen, S.: Chamben, P.
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Alintrons [5], [7] | 74] | 74] | 12], [7] | 77] | 77] | 77] | 8], antrons [5], [7] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] | 77] |
C.Rejecths THA blollog burlets, phosphopotelia elected by F.1 120/Comain; aminosterminal sulz.
F.1120/Comain; aminosterminal sulz.
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A:Title: Assignment of the ligand binding site of the porcine estradich receptor to t
A:Reference number: $32402: MUIIc:94209384
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A;Title: The C-terminal half of the porcine estradiol
A;Reference number: 147140; MUID:95060454
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C.Date: 21 Peb 1997 #sequence_revision 2) Peb 1997 #text change 20 And 1999
C.Accession: 147140: S66250; S32402
P.Reckenkamp, D.: Jungblut, P.W.: Thodo, H.H.
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A:Residues: 297 407:210 312:420
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Aggross references: GR:HB6Cl, KIL.ai93179, FILE.AAA37500, L FIE.ai93180 ^{\circ} Comment: The steroid hormones and their receptors are involved in the regulation of each Communent: In the absence of ideald, steroid hormone receptors are thought to be weakly
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P:Koike, S., Sakai, M.: Mutumatsu, M.
Nucleir Acids Res. 15, 2499-2513, 198
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submitted to the EMBL bata Library, June 1991
                                                                                                REMARQUES ALMINE
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No. 1.16 (1);
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A:Reference number: $16741
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A:Residnes: 1-487, 11,489 500 - MAC:
A:Residnes: 1-487, 11,
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C:Keywords: DNA binding; nucleus; steroid hormone receptor; transcription regulation
E:184-460/1xmain: ethA transforming protein bomology -BMC-
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Cobate: 20 Sept 1999 #sequence_revision 20 Sept 1999 #feet change 20 Jun
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C;Keywords: DNA binding; nucleus; phosphoprotein; steroid binding; steroid hormone re
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A.Modeenle type: mRNA
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A;Accession: T10423
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submitted to the EMBL Data Library, March 1994
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E:150.155,207.217/Bin-Hurr site. Jin. (7ys) #status predicted
F:225,222,242,245/Din-Hurr site: Jinc (7ys) #status predicted
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F;224-246/Region: zinc timaet CCCC motif
F;261-276/Region: nuclear location signal
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Allitie: Libentification and estrogen induction of two estrogen receptors (ER) messender Achieves incl. Adup70; MHILL89127284
A. Hitte: Libentification and estrogen induction of two estrogen receptors (ER) messender Achieves incl. Adup70; MHILL89127284
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Cibaccession: A37197; A40070
KCPikdel, F.: Le dac, F.: Le Goff, P.: Valotaire, Y.
Mot. Cell. Endocrinol. 71, 195-204, 1990
A:Fitte: Full length sequence and in vitro expression of rainbow trout estroyen receptor A:Fettence number: A47197; MUID:91006824
A:Genession: A47197
A:Bittus: preliminary
A:Bittus: preliminary
A:Bolecuic type: mRNA
A:Genessiones: 1-574 - PAK
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S.C.: Wolf, B.M.: Bilimoria, M.M.; Jordan, V.C.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98.4%;
97.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              96.6%; Score 373; DB 2; 93.9%; Pred. No. 5.4e-31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Pred. No. 1.2e-31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 2; Length 574;
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                        RESULT
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Aldross references: GB.X51417: NID:q36610; PIDN:CAA55779.1: FID:q46611: GE:YUG290
C:Supertamily: unassigned erbA-related proteins: erbA transforming protein homology
C:Keywords: DNA binding: steroid hormone receptor: transcription requisition: Fine lin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C:Superfamily: estrogen receptor; erbA transforming protein homology C:Keywords: steroid hormone receptor; zinc finger E:103 HE/Domain: erbA transforming protein homology <ERBA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A:Molecule type: mRMA
A:Residues | 1.535 kRKC
A:Residues | 1.535 kRKC
A:Gross reteriores | EMBCLX80059: Hib:q520901: FigH:cAAF1995.1; Pib:q529902
A:Gross reteriores | EMBCLX80059: Hib:q520901: FigH:cAAF1995.1; Pib:q529902
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CrSpecies: Salmo salar (Atlantic salmon)
Crbate: lo Jan 1996 #sequence_revision 01 Mar 1996 #text change 20 Aug-1906
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$58224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C:Species: Homo sapiens (man)
C:Date: 15 Dec 1988 #sequence_revision 15 Dec 1988 #text.chandc 20 Sep 1999
C:Accession: R29345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Reterence number: $58224
A;Accession: $58224
                                                                                                                                                                                                                       A; Molecule type: mRNA
A; Residues: 1-433 <616
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Status: preliminary
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C:Accession: 858224
F;103-123/Region: zinc tinger F;139-163/Region: zinc tinger
                                                              F:101-352/Domain: erbA transforming protein homology «ERBA»
                                                                                                                                                                                                                                                                                                      A; Accession: B29345
                                                                                                                                                                                                                                                                                                                                     A; Reterence number: A29345; MUID:88122546
                                                                                                                                                                                                                                                                                                                                                                             A; Title: Identification of a new class of steroid hormone receptors
                                                                                                                                                                                                                                                                                                                                                                                                            R;Giquere, V., Yang, N.; Sequi, P.; Evans, R.M. Nature 31, 91-94, 1988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 steroid hormone receptor ERR2 precursor - human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches 61: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 165 CYEVEM 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOS CAMOSOFASOMEROS ESCRIBERTES DECRENAMENTAS MASTER SACIONAL SERVICES (SA
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Similar ity

71.5%, Score 276, 188 2; Longth 444; 72.7%; Pred. No. 4.26-21;

5; Mismatches

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163 CLKVGM 168

61 CYEVGM 66

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Actoss reterences: EMBL:X51445; NID:q36608; PIDN:CAA35778.1; PID:q36609; EMBL:Y00290 
ERWITOP, U.R.; Eraus, P.J.: Zue, E.J. Murray, E.E.; Editts, E.; Merts, J.E. 
Genes Dev. 7, 2206-2215, 1993 
A:Elilbe: EW40 early to late switch involves titiation of cellular transcriptional repres 
A:Reference number: A49074; MURE:94040741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              =
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Pisspecies: Mus musculus (house mouse)
Pisbate: 13 Jan 1995 #sequence revision 01 Mar 1995 #text change 20 Sep 1999
                                                                                                                         Ξ
                                                                                                                                                                                                                                                                                                                                                                                                                                               C3Supertamily: unassigned crbA related proteins; erbA transforming protein homology C3Keywords: DNA bruding: nucleus; steroid hormone receptor; transcription regulation; zi F3174-4-04/Bommain: crbA transforming protein homology <PRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ashrovession: A49044
Ashrovession: A49044
Ashrovession: protein
Ashrovessions: 166 169, 7x7, 171 173 - Will-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A: Accession: A29345
A: Molecule type: mkNA
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C:Keywords: steroid hormone receptor: zine tinger
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A:Molecule type: mRNA
A:Residues: 1 433 - PET-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Affille: Identification of a new class of steroid hormone receptors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ridiquere, V.; Yang, N.; Sequi, P.; Eyans, R.M.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Citatos 15 bec 1988 #sequence regision 15-her 1988 #fext change 20-Sep-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N; Alternate names: estrogen related receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Steroid hormone receptor ERRI procursor—human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Estal 62/Asumains enhA transforming protein Lamology - ERBA
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   236 CLRVOM 241
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                                                                                                                                                                                                                                                                      The similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61 CYEVEM 66
                                                              6.1 CYEVEM 6.6
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                                                                                                                                                                                                                                             Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HEE
                                                                                                                                                                                                                                    68.2%; Shore 266; 148.2;
69.2%; Pred. No. 5.1e-20;
64tive 5; Mismatches 15
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A:Residues: 1 899 - FAZ.

A:Cross-reterences: GR.X59592; NID:q49968; PHDN:CAA42160.1; PHD:q4969

R:He, W.W.; Kumat, M.V.; Tindall, L.J.

Nucleic Acids Res. 19, 2473-2478, 1991

A:Reterence number: 840626; MUID:91252278

A:Accession: 840626; MUID:91252278

A:Status: preliminary
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A;Molecule type: mKNA
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A:Accession: A37908
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A: Residues: 1 899 - HEA >
F;575 599/Region:
                            F;539-559/Region: Zinc finger
                                                                                                                                                                                                              C; Genetics:
                                                                                                                                                                                                                                                                      A; Residues: 1 899 - RES -
                                                                                                                                                                                                                                                                                                  A: Molecule type: mkNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Cross references: EMBL: X53779
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Molecule type: mRNA
A; Residues: 366 413 + HEW+
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A; Residues: 1 899 + FAB>
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zine tinger
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Cryperies: Mus musculus (house monse)
Cryparies: Novel 1990 Asseptem crycision Novel 1990 Mtext change 20 Septimon
Cryparies: Novel 1990 Asseptem crycision Novel S1719B; $40626; 149501; $120B2
R.Ho. M.W.; Fischer, L.M.; Sun, S.; Bilbartz, D.L.; Zhu, X.; Yound, Cryff; Kelley, D.
Ricchem, Biophys, Res. Commun. 171, 69 7704, 1990
A/Title: Modernlar cloning of androgen receptors from divergent species with a polymer optor chuA probes from dog, quinea pig and clawed from.
A/Betterence number: A45895; MULD:90386642
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R:Gaspar, M.L.: Meo, T.: Tosi, M. Mol. Endocrinol. 4, 1600-1610, 1990 A. Crans Freterences: EMBL. X5 4779; M.D.:q19466; F118M:CAA37795.1; P1D::q49667

A. Reference number: A37255, MOID, 91133433 Affile: Structure and size distribution of the androgen receptor mRNA is wild type a

RyChairest, N.J.; Zhou, Z.; Labahn, D.B.; Olsen, K.L.; Wilson, E.M.; French, E.S. Agressiones: 1-899 - GAS - Agressiones: 1-899 - GAS - Ribadibib C., Fibr. AAA87234 LE Pibroti99-86 - Agressiones: 1-899 - GAS - Ribadibib C. - Fibr. AAA87234 LE Pibroti99-86 - Agressiones: 1-899 - GAS - Ribadibib C. - Fibr. AAA87234 LE Pibroti99-86 - Agressiones: 1-899 - GAS - Ribadibib C. - Fibr. AAA87234 LE Pibroti99-86 - Agressiones: 1-899 - GAS - Ribadibib C. - Fibr. AAA87234 LE Pibroti99-86 - Agressiones: 1-899 - GAS - Ribadibib C. - Fibr. AAA87234 LE Pibroti99-86 - Agressiones: 1-899 - GAS - Ribadibib C. - Fibr. AAA87234 LE Pibroti99-86 - Agressiones: 1-899 - GAS - Ribadibib C. - Fibr. AAA87234 LE Pibroti99-86 - Agressiones: 1-899 - GAS - Ribadibib C. - Fibr. AAA87234 - Ribadibib C. - Fibr. AAA8724 - Ribadibib C. - Fibr. AAA8724 - Ribadibib C. - Fibr. AAA872 - Ribadibib C. - Fibr.

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Archoss references: GR:S56585; NID:q236048; PIDN:AARU9916.1; PID:q236049 R:Edder, P.W.: King, A.: van beelj, H.C.J.: Brinkmann, A.O.: de Both, N.J.: Trapman,

A:Fittle: The monse androgen receptor. Functional analysis of the protein and character $\Lambda_{\rm c}$ Reference number: S17198; MUID:91354214

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Proc. Natl. Acad. Sci. U.S.A. яв. явобсяваю, 1991 Azfitle: A single-base deletion in the flm androach receptor gene creates a short liv

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A:Status: prejiminary: translated from GB/EME/DDEJ

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A.E.C. C.S. (18).

F;537 795/Domain: erbA transforming protein homology «EKBA

E;650-899/Domain: hormone binding #status predicted +LIG

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Ospecies: Raitus norvegious (Norway rat)
Plate: 14-Feb-1992 #sepponce revision 14-Feb-1992 #rext_cbange 20-Sep-1999
Oscession: H40494; A34943; A34943; B40108
Rechang, C.; Kokenis, J.; Liao, S.
Free, Natl. Acad. Sci. U.S.A. 85, 72H 7215, 1988
A: Dite: Piretural analysis of complementary DNA and amino acid acquences of human and A: Peterence number: A40494; MUID:89017168
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Rollman, 7.: Kokontis, J.: Limo, S.
Silenco 240, 324–326, 1988
A.Hille, Molecular about your beautional rationspleasentary BNA seconding andropen receptor
A.Betorence number: A40108: MUID:88178111
A.Aeression: 840108
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A:Ittle: The rat androwen receptor: primary structure, autorequiation of its messenger A:Potorence number: A44943; MUID:89112209
A.Accession: A44943
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EYERTROUGH. W.C.: Quarmby V.E.: Simental, J.A.: Joseph. D.K.: Sar, M.: Lubahn, D.B.: (
J. B.ol. Chem. 265, 9894 8890) 1990
A:Intle: A single base mutation in the androgen receptor gene causes androgen insensiti
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Pred. No. 4.7e-17;
8; Mismatches 19; Indels
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androgen receptor B - human
C.Species. Home Sapiens (man)
C.Date: 31-Mar-1991 #sequence_revision 31-Mar-1991 #text_change 12 Sep-1993
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F:586-610/Region: zinc finger
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A; Residues: 1:911 < GO2 >
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A;Accession: B34721
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Bost Local Similarity 59.1%;
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Pred, No. 4.7e-17;
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androgen receptor - human C)Species: Homo sapiens (man) C;Daccossion: A39248; A39328; A40109; A60946; A44942; A27654; A40108; A44944; A2224;

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A39248

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A:Title: The human androgen receptor: complementary deoxyribonucleic acid cloning, seque A:Reterence number: A:4442; MHID:89112208
A:Reterence number: A:4442
A:Recession: A:4442
A:Recession: A:4442
A:Recession: A:4442
A:Residnes: I 919 : IJI3.
A:Residnes: I 919 : IJI3.
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ACTILE: Cloning of human androgen receptor complementary DNA and localization to the X
Actiles communes A40109; MUID:BBI78112
Acrossion: A40109
A:Molecule type: INA
A:Residues: 559-524 -IHZ
A) Residues: [ 77,79 211,787,213 471,473-919 -THL:
A) Cross-references: GB:M21748; GB:J04150; NID:q178871; PIDN:AAA51771.1; PID:q178872
R) Mowszowicz, 1.; Lee, H.J.; Chen, H.T.; Mestayer, C.; Portois, M.C.; Cabrol, S.; Manual
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A:Perference number: A40108; MUID:88178111
A:Accession: A40108
A:Moreoute type: mPNA
A:Persiones: 557-628 - CHA -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             As Cross references: GR:M20200; NID:q178891; FIDN:AAA51774.1; FID:q178892
As November's translated the codon AAC for residue 565 as Glu
F3 Chang, C.; Kokontis, J.; Liao, S.
Seitence 240, 424-425, 1988
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A:Acression: A2765;
A:Molecule type: mRNA
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A:Residnes: 546-540;587-591;626-631;723-726;770-774;814-818;867-870-kU1-
R:Jathahn, D.B.; Jeseph, D.R.; Sar, M.; Tan, J.; Hiqus, H.N.; Larson, R.E.; French, F.S.
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A:Accession: A68946
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R:Bulper, G.G.J.M.; Puber, P.A
J. Mol. Endocrinol, 2, El R4,
                                                                                                                   A;Accession: A42224
A;Molecule type: mR
                                                                                                                                                                                      Proc. Natl. Acad. Sci. U.S.A. 86, 327-331, 1989
A:Title: Characterization and expression of a cDNA encoding the human androgen receptor
A:Reference number: A32224: MUID:89098909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                A:Reference number: A40494; M010:89017168
A:Acression: A40494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Rechange C.: Kokontiss J.: Liaos S.
Proc. Natl. Avad. Sci. U.S.A. 85, 7211-7215, 1988
A:Title: Structural analysis of complementary DNA and amino acid sequences of human and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Cross references: GEM20132; http://18627; Fibh.AAA51729.1, Fib.q178628, GB.J03188
R:Trapman, J.; Klaassen, P.; Kniper, G.G.T.M.; van der Korput, J.A.G.M.; Faber, P.W.;
Hiochem. Biophys. Res. Commun. 153, 241-248, 1988
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PERANCE D.M.: Keiper, G.C.I.M.: En Devij, BLC.I.: Van der Korput, J.A.C.M.; Brinkmann,
Mol. (cdl. Endocrinol. 6), 257-262, 1989
Astribe: The N-terminal domain of the human androgen receptor is encoded by one, large o
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Artille: Sequence of the intrody-Son factions of the coding region of the human androsp Acteronce number: A49248; MULD:90083402
                                                                                                                                                                                                                                                                                                     Reffilley, W.D.; Marcelli, M.; Wilson, J.D.; McPhaul, M.J.
                                                                                                                                                                                                                                                                                                                                             Apriloss references: GB:M23263
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R:Dubahn, D.B.; Joseph, D.R.; Sullivan, P.M.; Willard, H.F.; French, F.S.; Wilson, E.M.
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A:Residence: 1 77,79 165,7A7,167-889,7L7,49]-464,473-538 «FAB»
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A; Molecule type; DNA
                                                                                                                   Molecule type: mRNA
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Med. Endoerinol, 2, El E4, 1989
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   glucocorticoid receptor, beta splice form - human N;Alternate names: hGR
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A; Residues: 1 416 :WIL-
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A:Map position: 4
A:Introns. 1:57 - 45/5 - 7:52 - 1:22/5 - 24.75 - 25/5/2 - 0:1/2
C:Supertamily: unassigned orbA-related proteins: orbA transforming protein bomology
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C.Date. 15:6xt 1999 #Sequence_revision 15 0ct 1999 #text_change 31 Jan 2000
C;Accession: T19102
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submitted to the EMBL Data Library, May 1996
A:Reference number: 219073
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E;595-619/Region: zine tinger
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A:Status: Preliminary: Clanslated from GB/EMBL/DDBJ
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A; Residues: 557-614, 187, 616-624 - MOW
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21 GRYGEDHSSGKHYSTESGISGIAGESRKSERKHRQYYSKNKGSESGGGKVDKTHRNQGKA-80
                                                         Conservative
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                                                                                                                                                                                                                                                                                                                                    61.5%; Score 237.5; DB 2
53.5%; Prod. No. 3.7e-17;
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59.18;
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Pred. No. 4.7e-17;
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Fribatio, finite Detern-Waddleidh, S.D.

1. Biol. whomse 266, 7182-7188, 1991
A; Hitle: the memomic structure of the human discocorticoid receptor.
A: Reference number: A3979; MUID:91201478
A: Accession: H49779
A: Status: nucleic acid sequence not shown; not compared with conceptual translation A: Status: nucleic acid sequence not shown; not compared with conceptual translation A: Status: type: DNA
A: Postinger: VMS-404/441-450-490-409/574-500-521-5400-65 (RE:718-737-ERM:
A: Postinger: VMS-404/441-450-490-409/574-500-521-5400-65 (RE:718-737-ERM:
A: Postinger: C:: Hollenberg: S.M.: Rosenfeld, M.G.: Evans, R.M.
Rattre 418, 670-672, 1945
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A: Foreign st annotation; domains
Teronument: Alpha (see PIR:ORHUCA) and beta splice forms differ in their carboxyl-terminal coverer; it is possible that variant receptors perform tissue specific functions.
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A93370, MULD:66092206 A:Accession. B03370 A:Malecule type: mRNA A:Residues: 1-742 <Hol.
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Tidates 94-hore-1986 **expanic trovision 04-bee-1986 **text_change 21-Jnl-2000

CiArcession (94-470; B49779; Ac4247

EiBolicabera, S.M.; Weinberger, C.: Ung. E.S.: Cerelli, G.: Uro, A.; Lebo, R.: Thompson, Margre 41%, 645-641, 1985
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AcAdecession: A54223
Acid attas profinenciny
Arm legale type: mRNA
Actes dues: 1-771 KELL
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E 1999 - 2007 1517 1997
F:414-699/homain: erbA transforming protein homology <br/> <br/>ERBAY F:415-462/694ion: zinc tinger
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                                                                                                                                                                                        CoKeywords: zinc tinger
                                                                                                                                                                                                                                                         Archaestrately; almocarticald receptor; erbA transforming protein homology
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S. Endoerinol. 8, 431-439, 1994

S. Endoerinol. 8, 431-439, 1994
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Matches 69; Conservative 9; Mismatches 18
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F;452-476/Region: zinc tinder
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Biochim, Biophys. Acta 1218, 194-198, 1994
A.Title: Expression of the glucocorticold receptor dene is regulated during early emb. A.Reterine number: 845448; MGID:94289478
A.Reterine number: 845448; MGID:94289478
A.Reterine acta and sequence not shown
A.Ratius, and letter and sequence not shown
A.Rotlevine type: mRNA
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A; Description: The expression of alucocorticoid receptor dene is regulated Juring car
A; Reterence number: $44047
A; Molocoule Accession: $44047
A; Molocoule Accession: $44047
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Giberles: Kenopus laevis (African clawed from)
Giberles: NJun-1995 #sequence_regision 27 Oct 1995 #fext_change 22 Jun 1999
GiAccession: $45348: $44047; $42083
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A:Residued: 452-501/F/,503,7A1,505,7A1,507-510,7N1,512-618,7M1,520-543,7F1,545-550,
A:Cross references: EMBGLXX/264, NID-4450373, PIDRICAA54804.11: EID-64466374
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Rest Local Similarity
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480 CLQAGM 485
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                                                                                                                        61 CYEVGM 66
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59.1%;

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Pred. No. 8.5e-17;
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N; Alternate names: hGR

QRHUGA

glucocorticoid receptor, alpha splice form - human

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Asknip position: 54 d. 54 d. 54 d. Asknip positions: 65,1, 10 d. 1
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A:Forter-cure number: A9473; MUTER86092211
A:Forter-cure number: Colomains
R:Dablumin, K.; Structured, P.E.; Rac, C.; Joernvall, H.; Flock, L.; Carlstedt buke, L.; Hiol. Chem. 264, 804-809, 1989
A:Fitte: High bevol expression in Escherichia coli of the DNA binding domain of the glud A:Forter-cure number: A32196; MUTER8093147
A:Forter-cure number: A32196; MUTER8093147
A:Forter-curin-cured sequence expressed in Escherichia coli R:Forter-curin-cured sequence expressed in Escherichia coli R:Forter-curin-curin-cured sequence expressed in Escherichia coli R:Forter-curin-cured sequence expressed in Escherichia coli R:Forter-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-curin-cur
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A:Status: poeliminary: translated from GB/PM80,/hep-t
A:Molegule type: DNA
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E-Weinberger, C.; Hollenberg, S
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1. Erol. Chem. 266, 7182-7188, 1991
A.Ditto: The demonic structure of the human glucocorticoid receptor
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As Accession: ASBR7; MEDD:91224961
As Accession: ASBR7
AsBolovule type: INA
Asbesiones: 1 894 - LEC.
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Astross 1-december: EMBLIXO4225: GBSMIO901: NIDSG-GG79: PHDN:CAA26976.1; PHD:G-G1680-
Relabelees: S.: Xie, Ber, Ber, Roy, R.: Govindan, M.V.
J. Bros. Chem. 266, 8711-8719, 1991
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A:Cross reterences: 05:M60597
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A;Status: nucleic acid sequence not shown; not compared with conceptual translation
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A:Aecession: A93370
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                                                                                                                                          171/Domain: Steroid binding #status predicted ⋅SIB
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                                                                                                                                                                                                                                                                                                                                                                                                                                             49; Conservation
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S9.1%, Fred. No. 8.5e 17;
G. Mismitches 18;
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A 45,45.6
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F:4.88 692/Domain: erbA transforming protein homology - ERBA L.139 49 Chegron. Zure finger PCCC motil
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A;Molecule Type. DRA
A:Residues: 68-92,97,757,99-104 kGE2+
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A.Title. Heterageneily in the polygintamine
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A:Residnes: 1-97,717,99-225,767,227-259,757,261-444,777,446-515-47HA-
A:Cross-reterences: GR:Y00485, NID:q56324; PIDN:CAA68545.1; PID:q56325
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Nucleic Acids Res. 15, 9604, 1987
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R:Severne, Y.; Wieland, S.: Schaffner, W.: Ruscont, S.
EMBO J. 7, 2503-250B, 1988
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Cobates al-Mar 1988 esequence, povison al-Mar 1988 etc. characos. Junt 1999
Cohoression: AA1943 S01475; A27284; Statubus Sca891
Romicosteld, Rob Ruscopi, S.: Godowski, P.J.: Malor, R.A.: Okrot, S.: Wikstrom, A.C.:
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C:Keywords: DNA binding: nucleus; steroid hormone receptor; transcription regulation
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C;Comment: This sequence contains five potential translation initiators: 1 Met. 28 Me
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A:Residues: 68-97, D', 99-104 - GEA>
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A:Reference number: A27284: MUID:88067788
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A; Residues: 1-795 - MIE
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A, little. Genetic complementation of a gineocorticoid receptor deficiency by expression
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SOO CLOACM SOS
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A.M.J.Polle type: protein
A.Kosidhose [128-134] E.147, [8],149-164;546-558 kBIRS
E.Simpson, R.J.; Gredo, H.; Govindan, M.V.; Gronemeyer, H.
Mul. Peli, Endocrinol, 52, 177-184, 1987
A.Hitze: Reptide sequencing of the chick ovidact progesterone receptor form B.
A.Keterence number: A61552; MULD: 88005426
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A:Ross fines: 417-490 -0122-
A:Ross fines: 417-490 -
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A.M. Tersito type: mRNA
A.B. Starsitors translated the coxon CAG for residue 7 as Glu and CAG for residue
A.N.Jer. the authors translated the coxon CAG for residue 7 as Glu and CAG for residue
A.N.Jer. the authors translated the coxon CAG for residue 7 as Glu and CAG for residue
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Actoss reterences: GREM-2732; GB:J05240; BID:4212554; PIDE:AAA49011.1; PID:4212558
Februaryet: B.: Eureatte, B.: Quirth-Stricker, C.: Borquel, M.I.: Moyor, M.E.: Krozows
EMS J. G. 1985-3994; 1987
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Science 200, 767-770, 1986
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bidomeedly, U.M.; Ditson, A.D.W.; Esil, M.J.; Beattle, W.C.; Foft, D.G.; Hackaby, C.S.
Mol. Endocrinol. 1, 517-525, 1987
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A:Molecule type: DNA
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                                                                                                        A.Status, preliminary, translated from Ob/LMEG/DDBJ
A:Molecule type: mRNA
A:Residues: 1-923 <PARI)
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A:Cross-reterences: GB:L16942; NID:q464282; PIDN:AAA19916.1; PID:q464289
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C:Species: Rattus norvenious (Norway rat)
C:Datc. 02 Aug 1996 #argachar_traision 02 Aug 1996 #tc.kt_change 20 Aug 1999
C:Accession: 154280; B24744; A49574; A24744
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R:Haqibara, K.; Wu-Penq, X.S.; Funabashi, L.; Kuto, J.; Flatt, D.W.
Biochem, Biophys. Res. Commun. 205, 1094-1101, 1994
A:Fitte: Nucleic acid sequence and DNase hypersensitive sites of the 5° region of the
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A; Residues: 1 9 - HAG>
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A.Etatus, prelimitary, translated from De/DMBL/Facks
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A; Residues: 1-92+ <SCH>
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Biochemistry 40, 7014–7020, 1991
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Fibrik, O.K.; Mayo, K.E.

Mel. Endocrinol. 5, 967-978, 1991
A: It be Transfort expression of prodesterone receptor messender RNA in ovarian dramales
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A; Betteronces: G8: 589, 707, 591-624; 742-910 - PARZ A; Cross reteronces: G8: 589, 707, 591-624; 742-910 - PARZ A; Cross reteronces: G8: 589, 707, 591-624; 742-910 - PARZ A; Cross reteronces: G8: 589, 707, 591-624; 742-910 - PARZ A; It le: Cloning of the rat prodesteronc receptor dene-57 region and identification of t
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follows follow Score 2(2) DB 2: Length 923;
lesst local Similarity 56.1%; Prod. No. 2.5e-16;
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Copyright (c) 1994 - 2000 Compugen Ltd.
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SUMMARIES

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DNA encoding estrogen receptor—useful in screening assay to identity novel ligands or hormonal analogues

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| 1 365 | й | 20 | 382 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 48 | 98.4 | 98.4 | 58.4 | 98.4 | 98.4 | | 98.4 | 98.4 | 98.4 | 98.4 | 98.7 | 98.7 | 48.7 | 98.7 | 99.2 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
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                                                                                                                                    01-m1-1997.
                                                                                                                                                    EP798 178-A2
                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                     servering; DNA-binding domain
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                                                                                                                                                                                                                               20-APP-1998 (tirst entry)
                                                                                                                                                                                                                                                  AAW33210;
                                                                                                                                                                                                                                                                   AAW 8210 standard; Protein; 66
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of target genes in a ligand dependent tashion
                                                                                              choosing the novel receptor is immediately terminated, creating a truncation of the earboxy terminus of the novel receptor. This receptor is able to bind and be activated by estradial, estable and estrict, can be used in a screening assay for the identitication of new drugs e.g. movel
                                                                                                                                                                                                                                                   This protein contains an alternative each 8 (each 80) of the never oestrogen receptor represented. As a consequence of the introduction of this exon through an alternative splicing reaction, the reading frame
                                                                                                                                                                                                                                                                                                                                                             bunding protein, detected by screening a human testis cDNA library.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 4; Page 20 22; 45pp; Ruglish
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human cestroden receptor protein exon 8 splice variant
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     binding protein, detected by screening a human testis cDNA library. This receptor is able to bind and be activated by estradiol, estone and estimate, can be used in a screening assay for the identification of new
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                              ligands or hormonal analogues. This variant does not contain an AE 2 region and therefore probably lacks the ability to modulate transcription
                                                                                                                                                                                                                                                                                                                                                                                               This partial sequence represents a splice variant of a nevel oestrogen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N PSERIA AATRBATA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 25 MAR 1996;
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Jazal Similarity 100.0%: Brod. No. 60-85;
Hos. 66; Caddervative 0; Mismatches 0: todate 7
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Query Match 100.0%; Score 886; 100.18; Best Local Similarity 100.0%; Pred. No. Che 44; Matches 66; Ponservative 8; Mismatches 6.
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                                                                                                   Simpuotic e
                                                                                                                                          dependent
                                                                                                                                                                                                                                        This sequence represents a spice variant of a movel destrogen binding protein isolated from human thymns tissue. This protein contains an alternative executed (e.g., MC) of the movel destrogen receptor represented in AAT88412. This movel receptor is able to bind and be activated by
                                                                                                                                                                                                                                                                                                                                                                                                                                             N PSDB; AAIBB414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Di)kema R. Mosselman S;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human oestrogen receptor protein splice variant (exon 8e)
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                                                                                                                                                                                identification of new drugs e.g. novel liquids or hormonal analogues. This variant does not contain an \Delta F-2 region and therefore probably
                                                                                                                                                                                                                                                                                                                                           Claim 4; Page 30 32; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                identity novel ligands or hormonal analogues
                                                                                                                                                                                                                                                                                                                                                                                                       DNA encoding estrogen receptor—useful in screening assay to
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                                                                                                                                                             lacks the ability to modulate transcription of target genes in a ligand
                                                                                                                                                                                                                       estradiol, estone and estriol, can be used in a screening assay
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-NoV-1996;
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                                                                                                     418 AA:
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100.0%; Pred. No. 3.9e 34;
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 1, Page 9 10; 20pp; German.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sequence represents the bovine ER beta protein described in the method of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (ERb) which has anticancer and anti-osteoporosis activity. ERb is a
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                                                                                                        153 cycydm 158
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                                                                                                                                                                           61 CYEVGM 66
                                                                                                                                                                                                                                                                                                                                                                                        y Match 199.9%, Store 386, 198.21
Local Similarity 199.9%, Pred. No. 44c-34;
hos 65; conservative 0; Mismatches 0;
                                                                                                                                                                                                                                          92 - 1 CAVESASTANTAN DE SENTENCE CHARLES CONTRACTOR SENTENCE CONTRACTOR CONTR
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                                                                                                                                                                                                                                                                                                         <u>بر</u>
AC X
                                                                                                                                                                                                                                                                                                                                                 Quary Match
Rost Local Similarity
                                              Orphan receptor; prostate cancer; benign prostatic hyperplasia:
                                                                                                                                                                                                                                                                                                                                                                                                                            drugs e.g. movel ligands or hormonal analogues.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     This sequence represents a novel destrogen binding protein. The CDMA sequence which encodes this protein can be alternatively spliced resulting in the delection of additional transcripts (see AATH8418). This receptor is able to bind and be activated by estradiol, estance and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA encoding estrogen receptor - useful in screening assay identity movel ligands or hormonal analogues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Dijkema R, Mosselman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (ALKU ) AKZO NOBEL NV
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26-MAR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-OCT-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oestrogen receptor protein; steroid; alternative splicing; estradiol;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAW33212 standard; Protein; 477 AA
                       environment;
                                   ovary cancer; cardiovascular disease; osteoporosis;
                                                                                      Human oestrogen receptor beta (ER-beta).
                                                                                                                08-JUN-1997
                                                                                                                                                                  AAW14724 standard; Protein; 485 AA
                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                           estriol, can be used in a screening assay for the identification of new
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 4; Page 18-20; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   52 MVB 1004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human oestrogen receptor protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-APR-1998 (first entry)
                                                                                                                                                                                                                                 156 cyevam 161
                                                                                                                                                                                                                                                         61 CYEVGM 66
                                                                                                                                                                                                                                                                                 1 CAVOSTYASSYHYGVWSCEGOKAEEKRSIQSHNDYIOPAINQOTIIDKNBEKSOQAOBLEK 60
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                                                                                                                                                                                                                                                                                                                                                                                                     477 AA;
                                                                                                                                                                                                                                                                                                                                      Conservative
                       pollutant
                                                                                                              (first entry)
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95EP-0200820.
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                                                                                                                                                                                                                                                                                                                                     100 9%, Secre 386, DB 18, 100 9%; Pred. No. 4.5e-34; o. Mismatches 0;
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             costroden receptor EK alpha, and has been designated EK beta.
It is an oestroden receptor related nuclear receptor. The EK-beta
amino acid sequence was deduced from a cDNA clone (AA162843) isolated
                                                                                                                                                                                                                                                                                                                                                                                                                               prostatic hyperplasia and to test environmental chemicals for oestropenic activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          from a forman festis ODAN i.brary. Eat, human and mouse ER bet (AAM)47.23 25) can be used to isolate molecules for use in the freetheast of cardiorer-malar fiscatave, engine in the discourse system discourse, estemporosis, prostate or ovarian cancer or benique.
Homo sapiens
                          Aid salter therapy
                                                                  An estrogen receptor beta protein.
                                                                                            17 JON 1999 (first entry)
                                                                                                                         AAYOU'S
                                                                                                                                                     AAY01597 Standard: Protein:
                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A nozel human orphan receptor (AAW14724) is related to the known
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1: Fig 13A; 45pp: English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       treating e.g. cancers, CNS diseases, esteoporosis or cardiovascular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated oestrogen receptor beta
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                                       Authoritial estrogen reciphor, ER alpha, ER beta, activation,
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                                                                                                                                                                                                                                      tch (100.0%; Score 86; Db.18; Length 485;
a) Similarity (100.0%; Pred. No. 4.5c-34;
66; Conservative 0; Mismatches 0; Indels 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            specification describes a method for screening test compounds to
differential estrogen receptor (EK) alpha mediated and EK beta mediated
activation at an API site. The method is used for identifying compounds
                                                                                                               22 - NOV - 1996);
26 - MAR | 1996);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human oestrogen receptor protein #2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAW33215 standard; Protein; 530 AA
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Dijkoma K,
                                                      (ALKO ) AKZO NOBEL NV
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Mosselman s.
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Webb P;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                His sequence represents a novel destrogen binding protein isolated from bumon testis cDNA in order to study upstream translation-initiation codons using 5° RACE-PCR technology. This receptor is able to bind and be activated by estradicl, estume and estriol, can be used in a screening
                                                                                                                                                                       Hama destroyer receptor beta coding sequence—— useful in the prediction of human destroyer receptor beta and identification of human destroyer beta interactive compounds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAW97858 standard; Protein; 530 AA
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                            deduced from the nucleatide sequence (see AAX24364) of an isolated cDNA clone. hER beta is selectively expressed in the thymus.
                                                                            (hertween), including 45 proviously makewoon Netermical addresed to contribute to the transcription
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polynucleofides and polypeptides, particularly peptides which
                                                                                                                                                                                                                                                                                                                         (AMEE) AMERICAN BOME PROD CORP.
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                                                              activation function of the receptor. The amino acid sequence was
                                                                                                            This polypeptide comprises a full-lenath human oestrogen receptor beta
                                                                                                                                          ()aam 17: Pade 42-44; 49pp: English.
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                10.1 togtog
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100.0%; Pred. No. 56-34;
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                The investion encompasses hER-beta
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAE10457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches 66; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           include residues 1-45 of hER beta. The invention also provides expression systems in which transcriptionally active hER beta or frauments can be produced, as well as screening methods for
               processes, thus affecting physiological function positively or
negatively and for testing environmental pollutants for the presence
of estrogen mimics that may pose health risks involving ER-beta-
                                                                                                                                     with candidate compound and detecting increase/decrease of EK-beta-
requiated gene expression in presence of candidate compound compared
to expression in absence of the compound. The method is useful for
                                                                                                                                                                                                                                                                                                                                             In vitro screening for modulator of estrogen receptor-beta-mediated cell growth inhibition by contacting cell having functional EK-beta protein with candidate compound and detecting EK-beta regulated gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     co-activators and inhibitors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      identifying hEk-beta agonists and antagonists (including tissue-specific destrogens and anti-destrogens), and hEK-beta
                                                                         identitying a compound that modulates EE beta mediated cell growth inhibition. It is useful for testing dictary compounds, e.g. red window the presence of estrogen mimics that trigger EE beta-mediated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    W0200169262-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapieus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Estroden receptor-beta: dietary compound; environmental pollutant: red wine: ER-beta mediated cell growth inhibition modulator: haman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human estrogen receptor (ER)-beta protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAE10457 standard; Protein; 540 AA
                                                                                                                                                                                                    involves contacting mammalian cell having functional Ek-beta protein
                                                                                                                                                                                                                     The invention relates to in vitro screening for modulator of estimates experience beta (ER-beta) mediated cell growth inhibition. The method
                                                                                                                                                                                                                                                                                   Example 3; Fig 7A; 49pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                 N-PSDB; AAD18442
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ho S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (UYMA-) UNIV MASSACHUSETIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15-MAR-2000; 200008-189605P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-MAR 2001; 2001Wo-US08276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-SEP-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         209 cyevam 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         149_cavesdyasayhyawseedekafikisiq dhidyirpata pitolkiriksiqanilik saa
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     2001-596920/67.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               530 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%; Score 886; DB 2
100.0%; Pred. No. 5e-34;

    Mismatches

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mediated processes. The present sequence is human EK beta protein

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AAUZ/322
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                                                                                   PERMIT II
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CHAIL & WILLIAM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity
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                                                                                                                                                                               biological thirds, to identify compounds that modulate receptor activity and to screen compounds for the ability to stimulate or inhibit interaction between the receptor protein and a target molecule
                                                                                                                                                                                                                                                                                                                                           proteins can be used in assays to determine the biological activity of the protein, to raise antibodies, as a reagent
                                                                                                                                                                                                                                                                                                                                                                                                                           by single nurseotide polymorphisms (SNP). The variant peptides and
                                                                                                                                                                                                                                                                                                                                                                                                                                                       them (including vectors for transforming ceils). The gene for human ERbeta is located on chromosome 64.25.1. The variants are encoded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       consisting of an amino acid sequence selected from an amino acid sequence of a variant destrogen receptor protein (e.s. ERbeta), or a tragment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N PSDB; AAS43105, AAS43104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Kilash F, Pissel MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; destroien receptor beta: ERbeta: SNP, chromosome 6q.25.1; single nucleotide polymorphism; cardiovascu ar disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAU2/322 Standard; Protein; 530 AA.
                                                                       the untibody can be used to isolate the protein, to assess expression in
disease states e.g. cardiovascular disease and autoimmune disease (e.g.
                                                                                                                                                   that normally interacts with the receptor protein e.g. oestrogen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10 amino acids), antibodies against them, medeic acids encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to a movel isolated peptide comprising or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           bisclosure; Figure 4; 245pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           of individuals at risk of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               restrogen receptor gene and protein polymorphisms useful for diagnosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              W0200162793 A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo Sapieus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  osteoarthritis; osteoporosis; breast cancer, endometrial cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              autoimmune disease; systemic lupus erythematesus; arthritis; rheamatism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Buman costrogen receptor beta.
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osteoporosis, breast cancer and endometrial cancer. In addition
                                       systemic lupus crythematosus, arthritis, rhoumatism and osteoarthritis),
                                                                                                                                                                                                                                                                                                       designed to quantitatively determine levels of the protein in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZO FEB 2001; 2001WO USOS (60
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100.0%; Pred. No. 5e 34;
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81 MAY 2000; 2000JF-0164475.
81-MAY-2000; 2000JF-0163476.
                                                                                                                                            The invention relates to a method for examining the interaction of a test substance with a hormone receptor protein. The method involves contacting a test substance with a hormone receptor protein (e.a., an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein to a binding partner such as a lidand, the machic acids encoding the proteins can be used as probes, primers, chemical intermediates and in biological assays. The present sequence represents
                               with that generated in the absence of the test compound to determine whether the test compound is interacting with the hormone receptor
                                                                                                                                                                                                                                                                             betermination of the interaction of a substance for investigation and
diagnosis of hormonal disorders using an optically labelied receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAB60649 standard; Protein; 530 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the antibodies can be used in pharmacogenomic analysis and inhibiting protein function, e.g. blocking the binding of the oestrogen receptor
                                                                       signal generated in the presence of the test compound is then compared
                                                                                   thoreseent protein), where the marker is capable of undergoing a change
in its optical properties when the receptor binds a Ligand. The optical
                                                                                                                            oestroden receptor) which is labelled with an optical marker (e.d.,
                                                                                                                                                                                                                       Claim 26; Page 68 72; 75pp; Japanese
                                                                                                                                                                                                                                                                                                                                        N-PSDH; AAF59897
                                                                                                                                                                                                                                                                                                                                                                                              Sakameto H.
                                                                                                                                                                                                                                                                                                                                                                                                                               (OLYU ) OLYMPUS OPTICAL CO LTD.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human oestrogen receptor beta (ER beta), SEQ ID No:1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAB60649.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       receptor beta; ER-beta; labelled hormone receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%; Score 88%; DR 2
100.0%; Pred. No. 5e-34;
Zative 0; Mismatches
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protein, the gene encoding it, and vectors and host cells comprising

The invention also encompasses the labelled hormone receptor

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best Local (
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               such genes. The method of the invention is used for the investigation and diagnosis of narmonal disorders, septically those associated with sex barmons of a superception of control of the process aspects for the process of the sex barmons of a superception beta (ER-beta).
                                                                                                                     d cardiovascular discuse, cancer, metabolic disorders, or egetial necessary
system disorders. The livand is especially used to treat osteoporosis,
breast oforing ovarian or prost to cancer disherer or Alabajmer's
                                                                                                                                                                 This sequence represents a human destroyen receptor. The receptor can be used to identify ligands that bind to human destroyen receptor. The ligands can be used in a method for preventing or the tid an destroyen receptor mediated disease or condition, such as abbureau bone resorption.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo saprens.
                                                                     Sequence
                                                                                                        disease
                                                                                                                                                                                                                                                           Claim 1: Fig 1: 32pp; English.
                                                                                                                                                                                                                                                                                                 Estrogen receptor
                                                                                                                                                                                                                                                                                                                                    N-FSDB: AAX (4 (0))
                                                                                                                                                                                                                                                                                                                                                                                       Wilkinson H
                                                                                                                                                                                                                                                                                                                                                                                                                        (MERI ) MERCK & CO INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              08-SEP-1597;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             30-MVK-1228;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 04 - SEP - 1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       W05912961 A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     estemporosis; ovariam, prostato, diabetes; Alzheimer's disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Baman; sestrogen receptor: ligand; hone resorption; metabolic disorder; cardiovascular disease; carder; control nervous system; breast; gtering;
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Local Similarity 100.0%; Prod. No. 5e 34;
hos 65; conservative 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                   1999 229222,719.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5 (i) AA;
                                                                       548 AA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           97GB-00Z2884
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98GB-0006032
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98WO-US18577
 100.0%;
Pred. No. 5.1e-34;
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                Length 548;
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DE XX
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                                                                                                                                                                                                                                                                                                                       Query Match 100.0%; Score 386; DB 20; Best Local Similarity 100.0%; Pred. No. 5.1e-34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         beta (mER beta c: also designated mER beta-1). The present sequence represents mER beta-1, which is an isoform of mER beta c. The protein can be used to screen for agents that modulate or block the interaction between the ER beta c protein and physiological, stilbene or triphenylethylene (anti)cestrogens. The antibody which binds the protein can be used in assays to detect activation of the Protein. The complementary puchelic acid can be used for subscibiliar iocalisation of the protein. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 9; Fiq 2a; 89pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel murine destrogen receptor beta genes and splice variants useful for treating destrogen receptor-beta mediated disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WP1, 1999-142854/12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30-JUL-1997;
28-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-JUL-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ER beta c nucleic acid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention describes the marine complete desire den receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (UYYA ) UNIV YALE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Estroden receptor beta; oestroden receptor beta; ER beta
                                                                                                                                      227 cyceam 232
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228 cyevam 233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61 CYEVGM 66
                                                                     61 CYEVGM 66
                                                                                                                                                                                                                   1 GAVGSUYASGYHYGVWSGEGGKAFFKRSTQGHNDYTGDATNQCTTDENREKSTQACKLEK 60
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                                                                                                                                                                                                                                                                                        Mismatches
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                                                                                                                                                                                                                                                                                                                                                              Length 549;
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RESULT 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                CHOIL A MILLON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Isoform may be more active than the full length mER beta 3 (see AAW94128). 2 other isoforms, mER beta 2 (see AAW94128) and rat rER beta 4 (see AAW94127), have also been isofated, and the human exac 58 region (see AAX24944) has been identified. Based on these sequences, the invention provides methods for identifying agents that black or archived ER beta c mediated transcriptional regulation, methods to determine whether ER beta c or its isoforms is being expressed in tassers or cells, and methods of identifying and using agents that block the transcriptional regulation of genes by ER bata core its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Jumplification from a mouse embryonic stem cell denomic DNA library. It lacks occurs St. Preliminary data indicate that the MER bota 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             beta 3, and probably plays a significant role in MER beta 3 timetion the MER beta 1 clone was soluted by RT PCR of MRNA, and by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 including the newly described exon 5B, which is not found in ER beta-1. Exon 5H is located in the ligand binding domain of mER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present sequence is afternatively spliced isotorm mER beta-to-the murine complete destroyen receptor beta (ER beta-c, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Haman oestrogen receptor beta 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAWSB125 Standard: Protein:
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                                                                                                                                                                                                                                  TOWNSDYKARWINGWACHAT BARTER TEATHARD TOKING TOKING SYMPLIES AS
THE HELLITH HEL
                                                                                                 23d ogevin 233
                                                                                                                                                                             43 MEASTAL 13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (AA 9 AA)
                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gene therapy expression of ER bota c is envisaged.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9708 0054210
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                                                                                                                                                                                                                                                                                                                                                                                                                          100,0%; Score 486; DR 20; 100,0%; Pred. No. 5, le 44;
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                                                                                                                                                                                                                                                                                                                                                                                        0: Mismatches
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                                                                                                                                                                                                   WZ LRGMVV
                                                                                                                                                                                                                    RESULT 17
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                                                                                                                                                                                                                                                                                                                                                                                          Matches 66; Conservative
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Best Local Similarity
                                                           costroden receptor; ER beta 3; ER beta c; mouse; fumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (anti)oestrogens. The antibody which binds the protein can be used in assays to detect activation of the ER beta protein and can be used for subcellular localisation of the protein. The complementary nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim by Fig 1b t: 89pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel murine destrogen receptor beta genes and splice variants useful for treating destrogen receptor beta mediated disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Baron K. Chambon F.
                                            diagnosis; therapy
                                                                                        Mouse complete oestrogen receptor beta mER beta 3.
                                                                                                                                                                                     AAW98128 Standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  can be used to inhibit expression of the ER beta conucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the present sequence is the murine complete asstrated receptor beta (make beta c) also designated make beta 3). The protein can be used to screen for agents that modulate or block the interaction between the ER beta c protein and physiological, stilbene or triphenylethylene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (UYYA) UNIV YALE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Murine mER beta 3 clone protein sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAY04433 Standard; Protein; 560 AA
                                                                                                                         51 JUN 1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N-PSDB; AAX33382.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 58 THE-1885
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100.0%; Pred. No. 5.20-84;
ative 0; Mismatches 0;
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 moise embryonic stem cell genomic DNA library. 2 Alternatively spliced torms of mER beta 3 were also identified; mER beta 1 (see spliced torms of mER beta 5), which lacks exem 5P; and mER beta 2 (see AAM98125), which lacks exem 4. A third isolorm, rER beta 4 (see AAM98127) was identified in rat ovaries. The buman exem 5P region (see AAX24944) has also been identified. Based on these sequences, the invention provides methods for identifying agents that block or augment
                                                             -aphan receptor: oestroden receptor beta; ER-beta;
naclear receptor, prostate vancer, benique prostatic hyperplasia;
ovary cameer; cardiovascular disease; osteoporosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ER bota comodiated transcriptional regulation, methods to determine whether ER beta condite is being expressed in tissues or cells, and methods of identifying and using agents that block the transcriptional regulation of genes by ER beta conditions which in turn modulates other biological and pathological processes. Gree Decupy expression of EP beta-cois envisaged.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           domain of mEK beta-3, and probably plays a significant role in mEK beta-3 function. The mEK beta-3 clone was twice isolated using 2 separate procedures: RI-PCK of mRNA; and amplification from a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present sequence is the murine complete destroyen receptor-beta (ER bota-c) mER bota-3. The mER bota-3 cDNA clone (see AAX24935) contains 9 except including the newly described each 58, which is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Κ
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                                                                                                                                                                                                  Mouse destroyen receptor beta (ER-beta).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N-PSDB; AAX24935
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                                environment; pollutant.
                                                                                                                                                                                                                                                                                                                                                                                                         AAW14725 standard; Protein; 485 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    not found in ER beta-i. Exon 5B is located in the ligand binding
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08-SEP-1995;
15-MAR-1996;
11-APR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               oestroden receptor EK-alpha, and has been designated EK-beta. It is an oestroden receptor related nuclear receptor. The EK-beta amino acid sequence was deduced from a CENA close (AATG-2844). Fat. Foman and mouse EK-beta (AAW1472+25) can be used to isolate molecules for use in the treatment of cardiovascular diseases.
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treating e.g. cancers, CNS diseases, osteoporosis or cardiocascular
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       diagnosis;
                                    Oestroden receptor: Ek beta-4; Ek beta-e; rat: tumour:
                                                                                                 Rat oestroden receptor beta isoform mER beta-4.
                                                                                                                                                                     21-JUN-1999 (first entry)
                                                                                                                                                                                                                                             AAW98127;
                                                                                                                                                                                                                                                                                                              AAW98127 standard; Protein; 414
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                164 cyevam 169
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therapy:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        96GB+0007532
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96GH-0005550.
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260..45
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99.2%; Score 383; DB 18;
98.5%; Pred. No. 9.6e=34;
       isotorm
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 18; Length 485;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matriclies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sequences, the invention provides methods for identifying agents that block or augment ER behase mediated transcriptional regulation, methods to determine whether ER behase or its isoforms is being expressed in tissues or cells, and methods or identifying and using agents that block the transcriptional regulation of genes by ER betase or its isoforms, which in turn modulates other biological
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        binding domain of the receptor and is probably involved in receptor function. rER beta 4 nucleic acid was obtained from rat ovaries. It includes exon 58 but tacks exon 6, causing a frameshift and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present sequence is alternatively spliced isotorm rER beta-4 of the complete asstroder receptor beta (ER beta-2). Murine ER beta c clone mEE beta (See AAX4945) has been identified, which includes newly described examiss, which is located in the Hand
                                                                      Rattius sp.
                                                                                                                                         environment; pollutant
                                                                                                                                                                         ozary cancer: cardiovascular disease; osteoporosis;
                                                                                                                                                                                                  orphan receptor; pestrogen receptor beta; Ek-beta; nuclear receptor; prostate cancer; benign prostatic hyperplasia;
                                                                                                                                                                                                                                                                                                            Kat oestrojen receptor beta (EK beta).
                                                                                                                                                                                                                                                                                                                                                                            OB HUN 1997 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAW14723 standard: Protein: 485 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (AAW98126) isotorms, and human even the (AAV24934).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 tropeation of the protein 14 amino acids beyond the translated exon 84. Also disclosed are mek beta 1 (AAWHILE) and mEk beta 2 (AAWHILE).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 2: Fig 20: 89pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Himman coestrogen receptor beta 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #12798711 6661 CLAM
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hes 65, set
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       Location/Qualitiess
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98.5%; Pred. No. 1.4e 83;
ative 0; Mismatches 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gene therapy expression of ER beta-c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 21
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Best Local Similarity
Matches 65; Conserv
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34 80
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  oestrogen receptor EK-alpha, and has been designated EK beta. It is an oestrogen receptor related nuclear receptor. The EK beta amino acid sequence was deduced from a CNBA close (AAT62842) isolated from a rat prostate cDNA library. Rat, human and mouse EK-beta (AAW14723-25) can be used to isolate molecules for use in the treatment of cardiovascular diseases, central nervous system
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W09911760-A1
                                                                                                                                                                                             differential estrogen receptor; ER alpha; ER beta; activation:
                                                                                                                                                                                                                                                                           An estroden receptor beta protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               To A classification of the Community of 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           164 cyevam 165
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98.7%; Secre (8); DE 18; Length 485; 98.5%; Pred. No. 1.6e (3); valive (0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              el DNA binding domain
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       differential estroyen receptor (EK) alpha-mediated and EK beta-mediated and itselfon at an API site. The method is used for identifying compounds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 3; Page 41-43; 61pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI: 1999 205173
N-PSDB; AAX26685
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Estrogen receptor beta; destrogen receptor beta; ER beta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  the present sequence represents an estroyen receptor-beta. The specification describes a method for screening test compounds for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Screening for test compounds which inhibit or activate estrogen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31-AUG-1998;
                                                                                                                                                                                                                                                                   40 JUL-1997;
28-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                       04 - FEB - 1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            M-14305171-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    karrus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Rat rER beta-4 clone protein sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25 JUN-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAY 04436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAY04436 standard; Protein; 730 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              which can be used in therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  receptor beta (EK-beta) mediated activation at a API site - for use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gustalsson J,
useful for freating destrogen receptor-beta mediated disorders
                            Novel marine destroyen receptor beta genes and splice variants
                                                                                       WEST 1999 142853/12.
                                                                                                                                                                                                        (STIA ) UNIV TALE.
                                                                                                                                                                                                                                                                                                                                                        38661-THF-82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              164 cyczym 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           194 op 1935 och han ha samer kullftre i gyhody i spoto patidkom skechaemink 163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 CYEVOM 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 CAVCSDYASGYHTGVWSCEGCNAFFNES (WEHNDY I "PAINW" I I I KNERKS " WA 'RI RA - 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           65; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 on J. Kuiper GGJM, K
Scanlan FS, Webb P;
                                                                                                                                                Chambon P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         485 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9708 0923708
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                                                                                                                                                                                                                                                                                                                                                           98WO-US15540
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98.5%;
                                                                                                                                                   Denton R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0: Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 381; DB 20;
Pred. Mc. 1.6e-33;
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                                                                                                                                                Dupont S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 485;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches 65; Conservative
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 between the ER beta c protein and physiological, stilbene or
triphenylethylene (anti)oestrogens. The antibody which binds the protein
can be used in assays to detect activation of the ER beta protein and
can be used for subcellular localisation of the protein. The
              This partial estrogen receptor (a momber of a receptor superfamily) amino acid sequence (positions 185 252) is choosed by the CMMA shown in AAQ85956. It is disclosed in the patent specification, the invention concerns in EAR is gene (buman erb A related ache) encoding a nuclear receptor protein (AAR71565) derived from human esteosarcoma (BOC) cclls. The expression of EAR is seen abundant in the brain and was detected slightly in heart and placents. The receptor protein may be used for the investigation of generation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          complementary sucheic acid can be used to inhibit expression of the {\tt ER} beta c nucleic acid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention describes the marine complete estroden receptor beta (RER beta c; also designated mER beta (). The present sequence represents the ratisoform EER beta 4 of mER beta c. The protein can be used to screen for agents that modulate or block the interaction be used to screen for agents that modulate or block the interaction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 9; Fiq 2c; 89pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAR71566 standard; Protein; 68 AA
                                                                                                                                                                                                                                              Nuclear receptor protein derived from osteo:blastic osteo:sarroma - encoded by the EAR-ir gene, for investigation of generation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-FEB-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Partial human estrogen receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAR71566;
differentiation and growth of fat soluble physiological substances
                                                                                                                                                                                         Disclosure: Page 6: 8pp: Japanese.
                                                                                                                                                                                                                                  fat soluble active substances
                                                                                                                                                                                                                                                                                                         N-PSDB: AAQ85976.
                                                                                                                                                                                                                                                                                                                                                                  (MITU ) MITSUBISHI KASEI CORP
                                                                                                                                                                                                                                                                                                                                                                                                           20-JUL-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JP07033798-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        differentiation; human; erb-A related gene; estrogen receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              nuclear receptor protein; osteosarcoma; EAR-lr; generation; growth;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31-OCT-1995 (tirst entry)
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                                                                                                                                                                                                                                                                                                                             1995-110650/15.
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                                                                                                                                                                                                                                                                                                                                                                                                           93JP-0200333
                                                                                                                                                                                                                                                                                                                                                                                                                                                 93JP-0200333
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98.5%;
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Pred. No. 2.4e-33;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     product of avian erythroblastosis virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      discountiesed receptor, mineralscorficeed receptor, progesterone receptor, IRZ, rat AR, chick vitamin b receptor and the v erb sneedene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure: Fig 5; 60pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 to bind DNA, and derived antibodies, useful for receptor assay and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPT: 1989 (09501/42
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAPOT994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The sequence is part of the oestrogen receptor and is homologous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New DNA encoding new androgen receptor and TR2 polypoptide(s)—able
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                                                                                                                                                        Oberry March 98.4%; Seore 880; DR 15; Length 27; Best Local Similarity 97.0%; Pred, No. 3, 26, 34;
                                                                                                                                           Matches 64: Conservative
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                                                                                                                                                                                                                                                                The DNA-binding region of human coestrogen receptor (BER) is encompassed by the amino acids 180-251 in the mative protein. Three peptides chosen as haptens and immunogens to obtain specific antisera, are indicated in the features table.
                                                                                                                                                                                                                                                                                                                                                                                           specific for activated forms, useful for diagnosis, esp. in
breast cancer assessment
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                                                                                                                                                                                                                                Sequence
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                                                                  1) CAMPUT YARIYHYUVIMMETENEKATERKOLORIHMEY TOTALINOT TIBKNEKKSOQAPTELEK (60)
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9108-0784626.
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AAY08227 standard; Protein; 144 AA

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Best Local Similarity 97.0%;
                                                                                                                                                                                                                                                                                                    (TTT). (b) the recombinant polynucleotide comprises a specific sequence month which is specifically bound by the NBP, and (c) at least the chimeric protein encoding portion of the polynucleotide not bound by the NBP is protected by a binding molecy. The pDCP is used in the method for screening uncleotide libraries for sequences that encode populates of interest, Unlike prior art, the investion provides a method to produce a populate library where the DMA is protected from degradation, and which allows production of secreted populates with a free carbon formulas. This sequence represents a fusion protein fragment used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This invention describes a novel poptide display carrier package (PDCP), comprising a recombinant polynucleotide chimeric protein complex. For the isolation of peptide encoding package and sequences from a FNA
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                                                                                                                                                                                                                                                                                         method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   expression library. The RECF complises a recombinant polymorization chimeria protein
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ryevam 112
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||8|||^AAX376[1]|
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Pred. No. 6c 34;
2; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This invention describes a novel peptide display carrier package (PDP), comprising a recombinest pelymedendiale change to profess complex. For the isolation of peptide encoding nucleic acid sequences from a DNA expression library. The FDCP comprises a recombinant
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107 cyevqm 112
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                                                                                                                                                                                                                                                                   Score 380; DB 2
Pred. No. 6e-34;
2: Mismatches
                                                                                                                                                                                                                                                                                                                                       DB 20; Length 144;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Guery Match 98.4%; Score 880; D8.20; Length 146; Best Local Similarity 97.0%; Pred. No. 6.1e-34; Matches 44; Conservative 2; Mismatches 0; Indols
AADD2986 standard; Protein; 374 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  chameric protects encoding portion of the polymocleoride not bound by the NNR is protected by a bindring modely. The PDCF is used in the mothed for servening nucleotide libraries for sequences that encode peptides of interest. Unlike prior art, the invention provides a method to produce a peptide library where the DNA is protected from degradation, and which allows product not of secreted peptides with a tree carboxy terminus. This sequence represents a fusion protein tragment used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     has a nucleotide binding portion (NMP) and a target peptide portion (TPP); (b) the recombinant polynucleotide comprises a specific sequence motiff which is specifically bound by the NMF; and (c) at least the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               expression library. The PACP comprises a recombinant polynomies chimeric protein complex, where (a) the chimeric protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This inzention describes a novel poptible display carrier package (PPM), comprising a recombinant polymercofide chimeric protein complex, for the isolation of peptible encoding nucleic acid sequences from a DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18661 JUS$ 70
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            pDM15 oestrozen receptor DNA binding domain fusion protein
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                                                                                         : <u>.</u>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14+ AA:
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249 cyevam 254

61 CYEVGM 66

Onery Match 98.4%; Sence 880; 146.22; Length 874; Best Local Similarity 97.0%; Pred. No. 1.66.3; Matches 64; Conservative 2; Mismatches 0; Indels

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Analotensia concertine engle splice variant. ACEV: interleskin 6; grannlocyte colony stimulating factor receptor; gluciden; hypertrophy; platelet derived endsthellal cell growth teror; endlewascular disease; cellular tumour antique PS; cyclin-dependent kinase inhibitor IC; wassactive intestinal polypertide receptor 2, arteriosclerosis; cancer;
                                                                                                                                                                                                                                                             disorders including cardiovascular diseases such as atterioseletosis, myocardial infarction and coronary atterial thrombosis, renal diseases such as diabetic mephropathy, muscular diseases such as hypertrophy,
                                                                                                                                                                                                                                                                                                                                                                                                                  polypaytide receptor 2. The polypaytides and their associated nucleic acids are useful to identification of variant sequences and detection candidate compounds capable of binding the molecules. The sequences of the invention can be used in the treatment and diagnosis of various
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (AVEV) pulpped ide. The pulpped tack of the incoming incoming interleakin 6, granulocyte colony stimulating factor receptor, glucadon, interleakin 6, granulocyte colony stimulating factor receptor, glucadon, interleakin 6,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel alternative splicing variants e.g. variant of andiotensing energeting enzyme (ACEV), useful in identifying candidate compounds capable of binding to the variant and to detect anti-variant antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (COMP+) COMPUGEN LTD.
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                                                                                                                            cancer, sarcoidosis, nonarcoidotic pulmonary granulomatous diseases as asbestosis and vascular pathologies involving an endothelial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           platelet-derived endothelial cell growth factor, cyclin dependent kinase
inhibitor IC, cellular tumour antiqem PS, and vascactive intestinal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The sequence represents an analotensin converting enzyme splice variant (AMEV) polypoptide. The polypoptides of the insention include variants of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 4; Fig 86; 519pp; English.
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                                                                                    abnormatity such as deep wein thrombosis.
                                                                                                                                                                                                                               immorne disorders such as immore complex nephritis, multiple selerosis
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374 AA;
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Watches 64; Conservative
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                                                                                                                                                                                                                                   indicator 10, cellular tumour antique P53, and vasoactive intestinal polypoptide receptor 2. The polypoptides and their associated nucleic acids are useful for identification of variant sequences and detection of their transfer of the investion can be used in the treatment and diagnosis of various fiscillar cardiovascular diseases such as arteriosclerosis, expected in injection and coronary arterial thrombosis, conal diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nowel alternative spileing variants e.g. variant of angiotensin converting enzyme (ACEV), useful in identifying candidate compounds capable of binding to the variant and to detect anti-variant antibodies
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Andiotensia converting enzyme splice variant: ACEV; interleukin 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Andiotensin converting enzyme (ACEV) splice variant protein #58
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                                                                                                                                                                              cancer, sarcoidosis, nonarcoidotic pulmonary granulomatous diseases such
                                                                                                                                                                                              such as diabetic nephropathy, muscular diseases such as hypertrophy, immune disorders such as immune complex nephritis, multiple sclerosis,
                                                                                                                                                                                                                                                                                                                                                                                           (AMEV) polypeptide. The polypeptides of the invention include variants of an include yet colony stimulating factor receptor, glucagon, interleukin 6,
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                                                                                                                                       is astestesis and vascular pathologies involving an endothelial iterormality such as deep vein thrombosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                  the sequence represents an angiotensia converting ensyme splice variant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 4; Fiq 58; 519pp; English.
                                                                                                                                                                                                                                                                                                                                                                           a Rejet-Jerived endothelial cell growth factor, cyclin-dependent kinase
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1 CAVESDYASOTHIOVWSCEG FAFFYPSILCHNIVICFATNLCIIDENBEKSCQACKLEK 60

Db 249 cycydm 254

61 CYEVGM 66

Search completed: Jaiy 12, 2002, 14:45:08 Job time: 61 sec

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             100.0
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Copyright (c) 1993 - 2000 Compugen Ltd.
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                             Sequence 15, Appli sequence 1, Appli sequence 14, Appli sequence 11, Appli sequence 12, Appli sequence 12, Appli sequence 12, Appli sequence 13, Appli sequence 12, Appli sequence 15, Appli sequence 16, Appli sequence 16, Appli sequence 2, Appli sequence 2, Appli sequence 2, Appli sequence 4, Appli sequence 16, Appli sequence 17, Appli sequence 18, Appli sequence 18, Appli sequence 11, Appli
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Sequence 3
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| AVI STRANIKAKIAMSI PIT KAPEKKILOHAND XEVGM 66 | 1 CAVOSTYASGYBYGVWSCEGCKAEFKES LOGHND | y Match 100.0%; Score 386; DH Local Similarity 100.0%; Prod. No. 6.1e- hes 66; Conservative 0; Mismatches | LENGTH: 384 amino acids TYPE, amino acid TOPOLOGY: libear KLGINAL SOURCE: ORGANISM: Homo sapiens 38-620A-15 | FILE APPLICATION LATA: REGE APPLICATION NUMBER: GF 9609576.5 PILING DATE: 08-MAY-1996 FILING DATE: D NO. 15: EQUIPME CHARACTERISTICS: | FILING DATE: 08-SEP-1995 PRIOR APPLICATION NUMBER: GB 9605550.4 APPLICATION NUMBER: GB 9605550.4 FILING DATE: 15-MAK-1996 PRIOR APPLICATION DATA: APPLICATION NUMBER: GB 9607532.0 ETHING PATE: 11-APPLICAT | CHPUISE READALE FORM: HISHUM TYPE, FLEEF 1884 COMPOURE: ISH FC compatible GLEATING SESTIM, FC-6-3,MS-DOS SCETWAREN FALCATIO Belease #1.6, Version MRENT APPLICATION DATA: ARE CALLS SHOWER 75.00 P24, 600A | (ESULT 1 NS-08-836-620A-15 Sequence 15, Application US/08836620A Patent No. 5958710 GENERAL, INFORMATION: APPLICANT: TITLE OF INFORMATION: Orphan receptor NUMBER OF SEMINATION: 14 | ALIGNMENTS | 236 61.1 89 1 US-08-561 072 4 236 61.1 777 4 US-08-764 870 13 236 61.1 777 4 US-08-980-115-13 236 61.1 777 4 US-08-980-115-13 236 61.1 777 4 US-08-980-115-13 236 60.1 778 1 US-08-764-870-14 232 60.1 933 4 US-08-764-870-14 232 60.1 933 4 US-08-764-870-14 232 60.1 933 4 US-08-764-870-15-15 232 60.1 934 4 US-08-980-115-15 232 60.1 984 4 US-08-980-115-15 233 67.8 454 4 US-08-980-115-15 234 65-2238-06-2 235 7.8 409 2 US-08-764-870-4 232 57.5 416 4 US-08-980-115-1 | |
| CINE TO DE NEEK SCOLACE EX. 124 | YIOPAINQUIIDKNEKKSQACKUKK 60 | 2; Length 884: -37; 0; Indels 0; Gaps (| | | | #1.25 (EPO) | | | Sequence 4, Appli Sequence 15, Appl Sequence 18, Appl Sequence 18, Appli Sequence 14, Appl Sequence 14, Appl Sequence 15, Appli Sequence 15, Appli Sequence 5, Appli Sequence 5, Appli Sequence 5, Appli Sequence 5, Appli Sequence 5, Appli Sequence 5, Appli Sequence 6, Appli Sequence 4, Appli Sequence 4, Appli Sequence 4, Appli Sequence 4, Appli | |

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Patent No. 5958710
                                                                                                                                                                                                                                                                                     Sequence 1, Application US/09139617 Fatent No. 6222015
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Oberty Match 100.0%; Score 486; DR 2; Length 485; Best Local Similarity 100.0%; Pred. No. 7.8e-47; Matches 66; Conservative 0; Mismatches 0; Indels
                                                                                                                                         FILE REFERENCE: 20047Y
CURRENT AUSTRANTON BOBBBE, 00/09/149/017
CURRENT FILING DATE, 1998-08-25
                                                                                            EARLIER ADVILIGATION NUMBER, 60/058,271 EARLIER FILING DATE: 1997-09-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OBCANISM: Homo sapiens
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SOFTWARE: FastSEQ for Windows Version 3.0
                         NUMBER OF SEQ ID NOS: 22
                                                                      EARLIER ADELICATION NUMBER, 60,2060,520
                                                                                                                                                                                                                                           APPLICANT: WILKINGSM, HILLARY
                                          EARLIER FILLING DATE: 1997-09 30
                                                                                                                                                                                                               THILE OF INVENTION: ESTROGEN RECEPTOR
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PRIAMS DATE: 11 APR 1996
PRIOS APPLICATE & LAZA.
THE PRIOR MEMBER: GR 9609576.5
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PETOR APPLICATION DATA:
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THELLITTH HITTH HITTH HITTH HITTH HITTH HITTH HITTH HITTH HITTH HITTH
104 CAVESDYASGYHYGVWSCEGEKAFFKKSI QODNOY BEATNOCH HAKNKKSEQACKGKK 163
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CY: linear
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RESULT
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                                                                                                                                                                                            Overy Match 99.2%;
Best Local Similarity 98.5%;
Matches 65, Conservation
                                                                                                                                                                                                                            Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: Orphan receptor
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                                                    164 CYEVGM 169
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                                                                                                                                                                                            Score 383; DB 2; Length 484;
Pred. No. 1.7e 36;
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US-08-836 620A-5

Sequence 5, Application US/08836620A Putent No. 5958710

GENERAL INFORMATION:

APPLICANT:

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PRIOR APPLICATION NUMBER: GR 9
APPLICATION NUMBER: GR 9
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                                                                                                                                                                                                  FITLE OF INVENTION: Orphan receptor
NUMBER OF SEQUENCES: 19
COMPUTER REACABLE FORM:
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PRIOR APPLICATION DATA:
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                                                                                                                                  SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
                                                                                                                                                    COMPUTER: IBM PC compatible
                                                                                                                                                                                  SHALL WILLIAM
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IBM PC compatible
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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INFORMATION FOR SEQ ID NO: 11:
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PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: GB 9605550.4
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OPERALING SYSTEM: PC-DUS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1 25 (EPO)
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                          | Sequence 12, Application US/ORB 9620A | Galeration, Information | GENERAL INFORMATION: Orphan receptor TillE OF INVENTION: Orphan receptor |
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COMPUTER: TBM PC compatible
OPERATIRS CYCTUM, TC GACZMC DAS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; Patent No. 5223606
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COMPUTER: TRM PC compatible
GENERALISE A FLM FC A CMS DOS
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FILING DATE: 11 APR-1996
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FILING DATE: 15-MAR-1996
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91 CAEACM 99
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computer: IRM poleometrible
operaturd 3%3TM. EdicalMarco
SoftWard: Patentin Release #1.0, Version #1.25 (EPO)
CURPENT APPLICATION DATA:
                                                                                                                                                                          APPLICANT: Bredesen, Dale E.
APPLICANT: Rabizadeh, Sharroz
HILE OF HAVENTIAN: Proapoptotic Peptides, Dependence
HILE OF HAVENTIAN: Polypeptides and Methods of Use
HEMBER OF SEGURICIS: 72
CORRESS: THERES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORIGINAL SOURCE:
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PRIOR APPLICATION DATA:
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                                                                         COUNTRY: United States
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CHTY: San Diego
SIAFE: Californi
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C-MEDIER:
                     MELFIUM TYPE:
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IBM PC compatible
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                  Floppy disk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INLEGAUN: (619) 535-9001
TELLEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
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APPLICANT: Baxter, John D
APPLICANT: Fletterick, Robert J
APPLICANT: Wagner, Richard L
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REFERENCE/POCKET NUMBER: P-LJ 2626
TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Kushnet, Feter J
APPLICANT: Apriletti, James W
APPLICANT: West, Brian
TITLE OF INVENTION: Nuclear Receptor
TITLE OF INVENTION: Binding Domains
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY, AGENT INFORMATION:
PRIOR APPLICATION DATA:
                    FRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE: 13 DEC-
                                                                           PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 6
FILING DATE: 13-DEC-1995
                                                                                                                                                                                              CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                      STREET: FIT.
CITY: Palo Alto
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                                                                                                                                                                                                                               MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC DOS/MS DOS
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                                                                                                                                     FILING DATE: 13
CLASSIFICATION:
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                                                                                                                                                                                                                   SOFTWARE.
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BER: 31,815
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                                                                                                US 60/008,540
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  Guery Match 98.4%; Score 880; DB 4; Bost Local Similarity 97.0%; Prod. No. 4.8e-86; Green Prod. No. 4.8e-86; B
Mariotans
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CURRENT FILING DATE: 1967-11-26
EARLIER APPLICATION NUMBER: 08/764,870
EARLIER FILING DATE: 1996-12-14
EARLIER APPLICATION DATE: 1996-12-14
EARLIER APPLICATION DATE: 1996-12-14
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AGREEMING AND THE SEATON
NAMES NAKAMUTAL JACKICO
FEBOLSHANTON MUMORE 15, 265
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HELPSOMMUNITATION IMPORMATION)
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HITLE OF INVESTIGAL SPECIAL REFERENCE INTO LEGAND BURGING HOMAINS
FILE REFERENCE: BOAL 246/0208
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Apriletti, James W.
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                                                                                                                                               (207)
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21 Mishertohos
                                     DB 4; Length 595;
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: Patent No. 5958710
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                                                                                                                                                                                                                                                                                 . Seephence 6, Application 88/09141000 ; Patent No. 6054295
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CURRENT FILING DAIE: 1998-08
                                  CHERRENE APPLICATION NUMBER: HS/09/141, 000
                                                                                                               TITLE OF INVENTION: RECEPTOR PROTEINS
                                                                                                                                                                                                        APPLICANI: Chen. Fand
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PRIOR APPLICATION DATA: GB 9605550.4
APPLICATION NUMBER: GB 9605550.4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  h 98.4%; Score 880; DH 2; Length 596;
Challarity 97.9%; Fred, No. 4.86 46;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Seri Local Similarity 72.7%; Prod. No. 3c-24;
                                                                                                                                                                Unery Match 71.5%; Score 276; DB 2; Length 431; Best toost similarity 72.7%; Spot No. 3 to 24; Matches 48; Conservative 5: Mismatches 13, Indels
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ORGANISM: Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 418
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-POS MS DOS
SDETWARE: Fatcultu Release #1.6, Version #1 25 (EPO)
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153 CIKVOM 168
                                                                                103 CLVCGDIASGYHYGVASCEACEAEEKRTTQGNIEYSCPATNECELIKERRESCQACREMK 162
                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 08-SEP-1995
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                                        61 CYEVGM 66
                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
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                                                                                                                      1 CAVOSDYASOYHYOVWSOEGOKAFFKRSTJOHNIY (OPATNJOTTIDKNPEKSOJAOKIEK 60
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Sequence 2, Application US/09040508
Patent No. 6069239
GENERAL INFORMATION:
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US 09 500 654-2
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                                                                                                                         ; GENERAL INFORMATION:
                                                                                                                                          . Sequence 2. Application 05/09500654
; Patent No. 6359116
                                                                                                                                                                                                                                                                                                                                                                                                                                Ouery Match 71.5%; Score 276; DB 3; Length 435; Best Local Similarity 72.7%, Fred. No. 3.2e 24; Matches 48, Conservative 5; Mismatches 13; Indels
                                  APPLICANT: Stephen L. Mathias
TITLE OF INVENTION: 00. 535911561 Compounds
FILE REFERENCE: GPT-30008 D1
CURRENT APPLICATION NUMBER: 182/09/500.654
                     CURRENT FILING DATE: 2000-02-09
FARLIER APPLICATION NUMBER: 9705451.4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: linear MOLECULE TYPE: protein
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TELEPHONE: 610-407-0700
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                                                                                                                                                                                                                                                                                                                                                    105 CLYCGDTASGYHYGVASCEACKAFFKETIGONILYSCFATNECETTEFFEESCJAFFEK 164
                                                                                                                                                                                                                                                                      165 ÇLKVGM 170
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CITY: VALLEY FORGE
                                                                                                                                                                                                                                                                                                             61 CYEVGM 66
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STRANDEDNESS: single
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: Sequence 2. Application US/99141000
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No. 3.7e-24; Matches 48; Conservative 5; Mismatches 14; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Omery Match 68.9%; Score 266; DB 2; Length 518; Best Local Similarity 69.7%; Pred. No. 5.4e 23; Matches 46; Conservative 5; Mismatches 15; Indels
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OPERATING SYSTEM: PC bas/MS bas
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Solution 115-16
Solution 16, Application 18/08980115
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Patent No. 6236946
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APPLICANT: Baxter, John D
APPLICANT: Bletterick, Robert J
APPLICANT: Washer, Richard L
APPLICANT: Kushior, Feter J
APPLICANT: Wist, Brian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 14-DEC-1995
AT FIRE ATTER EMPTHATION
NAME: NAFABBURA, Jackie
REFERENCE/DOCKET NUMBER: 35,966
REFERENCE/DOCKET NUMBER: 0CAL 246/01US
RELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/008,540
FILING DATE: 13-DEC-1995
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: INN PC computable
OPERATING SYSTEM: PC-DOS/MS-DOS
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NUMBER OF SEQUENCES: 16
                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
LENGTH: 452 amino acid
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PRICE APPLICATION DATA:
APPLICATION NUMBER US 63
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                                                                                                                                            152 CYEAGM 157
                                                                                                                                                                                                                                                                                                       Local Similarity
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                                                                                                                                                                               61 CYEVOM 66
                                                                                                                                                                                                            STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE:
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                                                                                                                                                                                                                                                                                      39; Conservative
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                                                                                                                                                                                                                                                                               61.9%; Score 239; DB 4
59.1%; Pred. No. 6e-20;
ativo R; Mismatches
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; Patent No. 6235872
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APPLICANT: Fletterick, Robert J.
APPLICANT: Wagner, Richard L.
APPLICANT: Kushner, Peter J.
APPLICANT: Apriletti, James W.
APPLICANT: West, Brian L.
APPLICANT: Shian, Andrew K.
TITLE OF INVENTION, NOCLEAK RECEPTOR LIGANDS AND LIGAND KINDERS DEMAINS
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EARLIER FILLING DATE: 1995-12-14
EARLIER APPLICATION NUMBER: 60/008,543
EARLIER FILLING DATE: 1995-12-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
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CURRENT FILING DATE: 1997-11-26
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ADDRESSEE: Campbell & Flores LLP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Bredesen, Dale E. APPLICANT: Rabizadeh, Sharroz
ATTORNEY/AGENT INFORMATION: NAME: Campbell, Cathryn A.
                                                                                                                     SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
                                                                                                                                       MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin PATET
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                                                                                                                                                                                                                                                                                                                   CITY: San Diego
STATE: California
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                                                CLASSIFICATION.
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; Patent No. 9468624
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bost Local Similarity 59.1%; Pred. No. 1.7e-20;
Matches 49; Conservative 9; Mismatches 18; Indels
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Best Local Similarity 59.16: Prod. No. 1.30-19:
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APPLICANT: CENTRO V. NAZATOTH
TILLE OF INVENTION: OF THE GLUCGGGRICOLD RECEPTOR

FILLE OF INVENTION: OF THE GLUCGGGRICOLD RECEPTOR
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COMPUTER READABLE FORM:
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D-NO-L:
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// Patent No. 5571791
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US 08 561 072 3
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APPLICANT: E. Brad Thompson
APPLICANT: Lyone V. Nazareth
TITLE OF INVENTION: ARTI THROK ACTIVITY OF A RODIFIED FRACHENI
TITLE OF INVENTION: OF THE GLUCOCOKTICOTO RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEX: No. 5468624 Applicable INFORMATION FOR SEQ ID NO: 3:
                                                                                                                                                                                                            COMPUTER KEADABLE FORM:
MEDIUM TYPE: Florpy disk
COMPUTER: HAR PC COMPUTER: LILE
COPERATING SYSTEM: FC-LOSZMS DOS
SOFTWARE: WORDFOLICCT 5.1
                                                               PRIOR APPLICATION DATA: 08/08
APPLICATION NUMBER: 08/08
FILING DATE: July 7, 1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEGUENCES: 3
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ATTORNEY/AGENT INFORMATION:
TELECOMMUNICATION INFORMATION:
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                                                                                                                                         FILING DATE: 20
CLASSIFICATION:
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CUMPUTER: IBM PC compatible
OPERATING SYSTEM: PC hos/MS hos
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           REGISTRATION NUMBER: 41,026
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: WordPerfect 5.1
                                                                                                                                                                                ALTERNATIVE NUMBER.
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TELEPAX: 512-474-7577
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                                                   Hodgins,
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                                                                                                                                                                                                                                                                                                                               USA
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MBER: 31,026
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US-08-56/:072-3
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MICLIONNIC BLANDON DE THE, HUGHES, MARCHIO, ACNES, TIGLIAIS, PLEMPROFULUEARA, ANNE
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                                                                                                                                                                                                                                                                        Sequence 14. Application US/08764870 Fateur No. 6236946
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Hest Local Similarity 59.1%; Pred. No. 16-19;
Matches 39; Conservative 9; Mismatches 18; Indels
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ELEMAN: $12 474 7577
IELEX No. $571791 Applicable
INF-RMATION FOR SEQUED NO: 3.
                                                                                                APPLICANI: Scandan, Thomas S
APPLICANI: Buxter, John D
APPLICANI: Flotterick, Fodort J
APPLICANI: Wadner, Richard L
APPLICANI: Kushnor, Peter J
APPLICANI: Apricett J James W
APPLICANI: Mest, Brian
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LENGIH: 89 amino acid residues
TYPE: amino acid
SIKANUEDNESS: single
                 HILLE OF INVENTION: Nuclear Receptor Liquids and Liquid
THILL OF INVENTIONS: Binding homains
NUMBER OF SEQUENCES: 16
CHERESE ADDRESS:
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APPLICATI N. NUMBER. US/07/1-1,130
FILING DATE: 17-DEC-1987
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                                                                                                                                                           Scanlan, Thomas S
Haxter, John D
Fletterick, Pobert J
Wanner, Richard L
Cooley Godward
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US-08-764-870-13
Search completed: July 12, 2002, 14:36:09 Job time: 117 sec
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INC. SHAPTONE: 15 CO. 15 CO. 1
STRUCTURE TO THE CO. 1
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ATTORNEY/AGENT INFORMATION:
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APPLICATION NUMBER: US 60,7008,540
FILING DATE: 13-DEC-11995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60,7008,543
FILING DATE: 13-DEC-11995
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MEDIUM TYPE: Floppy
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REGISTRATION NUMBER: 35,966
PFFFFFENCE/Jacker NUMBER: 107
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CITY: Palo Alto
STATE: CA
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Local Similarity 59.1%; Prod. No. 2.4e-19;
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SUFIWARE: Patentin Release #1.0, Version #1.40
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Software:
Follow Software:
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Maximum Match 100%
Listing first 45 summaries
                                                                     Partitions:
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Miximum 14k seq length: 2000000000
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| C:Superfamily, estrogen receptor, etbA transforming protein homology C:Keywords. PRA binding, nucleus, phosphoprodein, steroid binding; steroid hormone E:94-355;Chmain, etbA transforming protein homology <erbas #status="" (ac)="" (b.="" (covalent)="" (cys)="" cccc="" e:142-156;keqion:="" e:152,138;148;151;minding="" e:156;ha;reqion:="" e:156;reqion:="" e:552;binding="" e:56,99;hi,116;kinding="" e:96-116;keqion:="" finger="" kinase)="" location="" maf="" motif="" nucleur="" phosphate="" predicted="" predicted<="" signal="" site:="" td="" zinc=""><td>uperfamily ccywords: D 4.355/76mi 6.116/Reqi 92.156/Req 92.156/Req 67.182/Req 25/81.11.4 6.995.11.4</td><td>3333333300 3465255655</td></erbas> | uperfamily ccywords: D 4.355/76mi 6.116/Reqi 92.156/Req 92.156/Req 67.182/Req 25/81.11.4 6.995.11.4 | 3333333300 3465255655 |
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| estrogen receptor beta - haman | estrogen rece | ž |

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Reseason, S., Inoues, S., Watanabe, I., Hiroi, H., Orimo, A., Hosoi, T., Ouchi, Y., Murama
Broadhem, Biophys. Res. Commun. 24-8, 122-126, 1998
A:Urle: The complete primary structure of human estroden receptor beta (hERbeta) and it
A:Deterence number: JC59-69, MHID:981-0878
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C:Comment: This protein functions as a negative regulator of estrogen action.
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Riochem, Riophys, Pess Cemmen, 246, 142-147, 1998
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CyComment: In the absence of ligand, steroid hormone receptors are thought to be weak
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Mol. Endocrinol. 1, 25–45, 1987
A:Title: Structural organization and regulation of the chicken estrogen receptor.
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EMBO J. 5, 891-897, 1986
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Ele7-4bo/Semain: criA transforming protein bomology aERBA [187-2bo/Semain: zinc tinger CCCC motif F2.1.-45/Reation: zinc tinger CCCC motif F2.1.-45/Reation: mortar in the Electric signal F2.2.-275/Reation: mortar in lowering situate F2.5.-255/Reation: mortar in lowering situate prodicted STR-F2.5.-45/Reation: storid binding status prodicted F2.5.-251/241/244/Heinding site: zinc (Cys) #status prodicted F2.5.-5.-451/241/244/Heinding site: zinc (Cys) #status predicted
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A:Residues: 1-595 -boK -
A:Cross-references: EMHL(237167; NID:4587554; ELDR:CAA85524.1, FID.4587555
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A: A-ression: $66,250
A: M-lecuie type: protein
A: Rosings; 267-407-70-713-300-329-729-7
A: Experimental source: uterus
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Cistate: 21-Feb-1997 #sequence_revision 21 Feb-1997 #text_change 20-Aug-1999
CACCESSION: 147140; 86.250; 832402
Kete-kenkamp, D.: Jurablat, F.W.; Thole, H.H.
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Err 1847) entire forming (vig):
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Mol. Endocrinol. 1, 735-744, 1987
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Artitle: The Coterminal half of the porcine estradiol receptor contains no post-translat
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Assist the Assistance of the ligand binding site of the porcine estradiol receptor to the
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E.121 290, Towall. URA binding *status predicted 'NNA' EPRA E118'-455/Memain: erbA transforming predicts femiclety EPRA E118'-395/Region: zinc tinger CCCC motif p.221'-245/Region: macrear location signal p.256 271) Region: macrear location signal p.256 271) Region: steroid binding *status predicted <578-P.200 595/Memain: steroid bindi
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C:Keywords: DNA binding: nucleus: phosphoprofein: steroid homone receptor: 'tanserij
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A; Residues: 303-323 < THW-
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A; Accession: $32402
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494 GLTLQQQHKRLAQLIJJILSHFRHMSNKGMEHLYNMKCKNVVPLYDLJJEMIJJAHRI. 549
                                                                                                                                                         178 GISSQQQSMRLANULMILSHVRHASNKGMEHLLNMKCKNVVPVYDILLLEMI.NAHVI. 233
                                                                                                                                                                                                                                                                                                                                              3)5 MISALLEARPP TIYSEYDPTRPLSHASMMOLLTMLADRELVHMINWAKKVPGPTDLSTH 47-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       119 FEBELKLÜHKEYLÜVKAMILLINSSMYPLVIAI "QUADSSEKLAHLINAVII ALVWVIAKS" 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   374 DQVHLLECAWLETLMTGLVWRSMEHPGKLLFAPNLLLTGRNQGKCVEGMVETFTMLLATSS 4 **
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A:Residnes: 143 161;205 225;214 264;356 374,707,476;402 422;117 440;777,472;407;108 5 R:Keaveney, M.; Kluq, J.; Gannon, E. DNA Seq. 2, 347-358, 1992 as the 57 flanking region of the human estrogen receptor a A:Title: Sequence analysis of the 57 flanking region of the human estrogen receptor a

A; Reference number: \$27140; MUID: 93075998

A: Molecule type: DNA

A; Accession: A43021

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A:Cross references: GN:M6226
A:Cross references: GN:M6226
A:Experimental source: cloue 24; broast cancer
A:Experimental source: cloue 24; broast cancer
A:Experimental source: cloue 24; broast cancer
C:Comment: The steroid hormones and their receptors are involved in the regulation of er
C:Comment: In the absence of liquid, steroid behaviour receptors are thought to be weakly
ompley appears to receptive discrete DNA sequences upstream of transcriptional start sp
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Ar Experimental sources clone 4; breast cancer
AND 101 Sequence Las been revised after extraction from MPRI backbare.
AND 101 Sequence Las been revised after extraction from MPRI backbare.
AND 101 Sequence can be the northern the nucleotide nor the protein is shown in this APP Note: sequence extracted from MPRI backbare (MPRIN: 1865)
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A:Molecule type: mRNA
A:Boshdnes: 1 214, ELPTLO (+po)
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A.Molecule type: mRNA
A.Molecules: 216 244,607 890,767,401 434 SPEE
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AsNote: the anthors translated the codon GOG for residue 400 as Val
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C:Keywords: DNA binding: nucleus; phosphoprofein; steroid hormone receptor; transcriptio
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Endocrinol. 6, 773-785, 1992
A:Little: Characterization of estrogen receptor variant mkNAs from human broast cancers.
A:Feterence number: A41925; MUID:92293154
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Acted erence number: $44000; MUID:94157765
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                                                                                                                                           A; Residues: 1 586 × WEI •
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A; Cross-reterences: GB:1.20735
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omplex appears to recognize discrete DNA sequences upstream of transcriptional start
C.Supertamily, estreach receptor; orbA transforming protein bomology
C.Keywords: DNA binding: pucleus; phosphoprotein; steroid binding; steroid bermone to
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Aprille: Molecular cloning and characterization of rat estrogen receptor cDNA
Asketerence number; 807-879; MULD:87174780
R;Weiler, I.J.; Hew, D.; Shapiro, D.J.
Mel. Endocrinel. 1, 95-62, 1987
                                                                                                                                                                                                           C:Species: Xemopus laevis (African clawed frod)
C:hate: 28 Feb 1992 #sequence_revision 14 Jul 1994 #fext change 15 Jun 1996
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C:Species, Rathus norvegicus (Norway rat)
C:Bare: #8-Sep 1991 #sequence_revision 14-Jul 1994 #fext change 22 Jun 1999
C:Accession: 807-879; 8167-41
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Matches 199, Administrative 52, Mismiatches 41; Indets
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C.Dute. 13 Jun 1996 #sequence_tellsion 0
C.Accession: S58224
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C;Keywords: steroid hormone receptor: zinc finger
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A;Pesidaes: reference: EMBLIX89959; NID;g929901; PIDH:CAA61999;]; PIDH:qx29902
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A; Pesidnes: 1,535 /PO
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                                                                     179 ISSÖĞÖSMELANLEMELSHVEHASNEGMEHLENMECKNVVPVYDELLEMENAHVE 233
                                                                                                                                                                                                                                                                                 301 QVQLIESSWIEVUMTGLIWPSTHOPGKITEAQDLILDPSEGDOVEGMAFIEDMLIATVSK
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                                                                                                                                          361 FRMEKEKPREFVOLKATILENSCAPSTOSNSVESLHINSSAVRSMEDIGTTVALTHHISHSO
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A:Note: the nucleotide sequence was submitted to the EMHL Data Library, January 1996 O/Superfamily: estrugen receptur; erba transforming protein komology C:Keywords: steroid hormone receptor; zine finger F.183:156/Zomain. erba transforming protein homology #status atypical ERHZ-F.518:562/Zomain. erba transforming protein homology #status atypical ERHZ-A; Molecule type: mRNA A; Residues: 1 701 <PIN> A;Cross-references: EMBL:U47678; NID:q1197854; PIDN:AAB00115.1; PID:q1197855

A.Title. A novel 86 kBa haman estroyen receptor containing a daplication of exons 6 a A.Reference number: \$64737; MUID:96174665
A:Accession: \$64737

A; Status; preliminary; nucleic acid sequence not shown; translation not shown

C;Accession: 864737 R;Pink, J.J.; Wu, S.Q.; Wolf, D.M.; Bilimoria, M.M.; Jordan, V.C Nacloic Acids Pos. 24, 962-469, 1996

C:Species: Homo sapiens (man) C:Date: 28 Oct 1990 #sequence_revision 13-Mar:1997 #text_change 20 Aug-1999

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80K estrogen receptor - human

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A: Pross references: dis.Mai.50; Nibeqzi.4783; PibN:AAAA.9552.1; Pibcqzi.4784
A: C: Superfamily: estropen receptor: verbA transforming protein homology
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E:Pakdel, F.; Le Guellee, C.: Vaillant, C.; Le Roux, M.G.; Valotaire, Y.
Moil Endominol, 3, 44 51, 1989
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Moi, Cell, Endocrinol, 71, 195-204, 1990
Artifle: Pull length sequence and in vitro expression of rainbow front estrogen receptor
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30.3%; Score 358; DB 2: Length 433; 35.3%; Pred. No. 2.86-25;

212 IVSYLLVAEDUKLYAMPER VERGETKALITELITÄÄAPELVELISWAKHURIPSNILION 271

1 TALLITARABAHATTANA SAMMASAHATTANA SAMMASAHANS AKSTANAGAKATALAN 1

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Aptross references: EMBL:X66841; AID:q334; EIDM:PAA47417.1; EID:q336; C:Superfundity: estrogen receptor; erbA transforming protein homology C:Keywords: steroid homone receptor; zing tinger
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C;Superfamily: unassigned crbA related proteins; crbA transforming protein homology
C;Keywords: DNA binding; steroid hommone receptor: transcription regulation; Zinc tin
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submitted to the EMBL Data Library, May 1992
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F:104-124/Region: zinc tinger
                                                                                                         1)181 352/18 main: erbA transforming protein homology (ERBA)
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A; Residues: 1 433 cold.
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C:Late: 14-Jan-1996 #sequence_revision 01-Mar-1996 #text_change 20-Sep-1999
C:Acression: S58087
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C:Species: Macaca mulatta (rhesus macaque)
C:Nute: 04-oct-1996 #sequence_recisi n ^1 oct 1996 #FAI_thinge 20 Aug
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                                                                                                     C:Supertamily: estrogen receptor; erbA transforming protein homology c:Keywords: steroid hormone receptor; zinc finger b:1:54/1-main: erbA transforming protein homology (tragment) <ERBA>
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A:Residues: [-12] <RES>
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AsAcoession: 167419
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To at Local Similarity (4.1%, Prod. Mo. 7 6,-24) Todat: 21
Matches 78, Conservation 58, Mismatches 72, Indet: 21
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C;Species: Homo sapiens (man)
C;Date. 10 Jul-1998 #sequence_revision 10 Jul 1998 #text_change 17 Mar-1999
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AiMolecule type: protein
A:Residues: 166-169,'X',171-173 <WIL>
A:Residues: 166-169,'X',171-173 <WIL>
C:Superfamil: unassimed crbA:clated proteins, orbA transformina protein bameley
C:Reywords: DNA binding, nucleus: steroid hormone receptor; transcription regulation:
E:171-434/Sommain: orbA transforming protein homology (ERBA)
E:176-196/Region: zinc finger
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A,714Le. 2940-2017, to-late switch incolors titration of cell-lite trans riptional rep
A;Reference number: A49074; MUD:94040741
A;Accession: A49074
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R;Giguere, V.; Yang, N.; Segui, P.; Evans, R.M.
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C;Species: Homo sapiens (man)
C;Date. 15 Dec 1988 #sequence_revision 15 Dec 1988 #text_-bando 20-Sep-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 18
A29345
A2000 FREE Precursor - human
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E:W110;; S.E.; Kraus, E.J.; Euo, F.; Murray, E.E.; Louito, K.; Morto, J.E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Molecule type: mRMA
A; Residues: 1-521 <010>
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Best Local Similarity 52.19
19-19-63; Conservative
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467 PGCCAERERACELLLILLICLERCINGEVIAHENCVELEGEVPMHKLELEMIEA 518
                                                                                                                  179 TSSQQQSBFLANLLELLSHVEHASHEGMEHLLNHKCKNVFVFYDT LLFKLNA 230
                                                                                                                                                                                                                                                          413 LOALRIEREEYVLLKALALANSISVHIEDEPRIMSSCEKLIH
                                                                                                                                                                                                                                                                                                                                                                            120 FEELKLJEKEELOVEAMILLISSEMYTLVTATQUAISSEKLAHLLIAAVITALV WYDAEDI 176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       294 LVSHLLVVEPEKLYAMPDPAGPDGHLPAVATLCDLFDREIVVTISWAKSIPGFSSLSLSD 353
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52.1%; Pred. No. 2.3e-24;
utive 34; Mismatches 23; Indels []
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C:Accession: PW0044

Resolution: B. C. Beres, Libra Stead Fester, E., Medec, L.B., Sones, S.A., Hornes E.L., Roschom, B.O. Resolution: Commun. 247, 75-78, 1998

Activités Cloudey, and characterization of human estrogen receptor beta isotorms.
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A.Motosidues: 955-960,707,591-624:742-910 - PARZ -
A.Stoss leteronous: GB:S6404
B.Kraus, W.L.: Montano, M.M.: Katzenellenbogen, B.S.
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Artitle: Transfent expression of projestorone receptor messenger RNA in evarian granulos
A:Beteronce number: A23733; MILLE:52049379
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Cibate: 02 And 1996 #sequence revision 02 And 1996 #text change 20 And 1999
CiAccession: 154280; R24743; A49574, A24744
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A:Modecule type: FNA
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Addition preliminar
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A:Status: preliminary: translated from GR/HMEJ/Hds/
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Ashestidues: 1 Bu - Moo-
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*:Kegwords: DNA binding; nucleus; steroid burmone receptor; zinc finger
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                                                                                                                                ANACHMISCHALISCHMISCHMISCHMISCHMISTOTHMISMIK
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                                                                                                                                                                                                                                                          60 QVRILESOWMEVIMMGLMWKS10HPG - KLIFAPDLVIDKDEGKOVEGILETFDMILA - - 115
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CyKeywords: DNA binding; nucleus; steroid hormone receptor; transcription resulation;
PySCS 819/Domain: clbA transforming profein bomology (BRBA)
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PHIN:AAA49971.1: PHEG209472; REHARDMAID, E.D. WOIDENG, X.S.: PHOGESERIC, L. Kato, J.: PHALL, E.W. Belle, R.S.: Phogeseric L. Kato, J.: PHALL, E.W. Blocken, Phoppys. Res. Commun. 205, 1093–1101. 1994.
A.Title: Nucleic acid sequence and phase hypersensitive sites of the 5° region of the A.Title: Nucleic acid sequence and phase hypersensitive sites of the 5° region of the
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Rymoestell, B.: Arger, M.: Misrabi, M.: Gaiochon Mantel, A.: Meriel, C.: Logent, F.: Proc. Natl. Acad. Sci. U.S.A. 83, 9045-9049, 1986

Classics and sequence analysis of rabbit prodesterone receptor complementary

C;Date: 16-Ana-1988 #sequence_revision 16-Ana-1988 #text change 20 Ana 1999

C:Accession: A25923

produstrion receptor rabbit
C;Species: oryetologus cuniculus (domestic rabbit)

A25923

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A from total points the Miff47 BTF (1876-X), FIERLANASH413.1. FIELA165532 (180portunily: prodestronor receptor, grbA transtantial prodest bounded by Calegoria (180portunily) and binding, sucheus, steroid hormone receptor; transcription regulation; E)566-826/(2001) and transforming protein homology (EBBA) (1809-588/E0)1000 zinc linder (1909-588/E0)1000 zinc linder
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A:Coss:Telorences: GB:M15716; NID:q1894%; PIDN:AAA600%1.1; PID:q1899%5
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A:Reference number: S09971; MUID:90228361
A:Accession: S09971
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C:Bato: 40-Jun-1987 #364pence_revision 18 Nov-1994 #text_change 22-Jun-1999
C:Accession: 80997) 812464: A03245
C:Accession: 80997) 812464: A03245
K:Kustner P - Krust A - Turcetto B - Stropp, H ; Tora, I : Groscoper, H ; Chamboo.
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No. 4.7e-13; 15:5-5-5 19: Gaps
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A:Molecule type: mRNA
A:Rosidues: 1-89/1/,91:246,757,218-281,797,283-303,797,305-351,78117,455,787,457-444
A:Experimental source: pituitary
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R:Takeo, J.; Hata, J.; Segawa, C.; Toyohara, H.; Yamashita, S.
FEBS Lett. 389, 244-248, 1996
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F:432-456/Region: zinc linger CCCC motif
F:703-752/Domain: storoid binding #status predicted <STH>
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C:Superfamily: glucocorticoid receptor: etbA transforming protein homology
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A:Accession: S70470
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Endocrinology 136, 3774-3783, 1995
A:Title: Cloning of a teleost fish glucocorticoid receptor shows that it contains a d
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o:Pate: 27 Apr 1946 #sequence_recision 13 Mar 1997 #text_change 20 App-1999
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A:Fitte: New retinoid X receptor subtypes in zebra tish (Basic rerio) differentially mode A:Reterence number; A57301; MUDD:96009547
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Genes hev. 6, 329-344, 1992

C;Accession: S26669; 16:4160 R;Mangelsdort, D.J.; Borgmeyer, U.; Heyman, R.A.: Zhou, J.Y.; Gret, E.S.: Gro, A.E.: K

C;Species: Mus.musculus (house mouse) C;Date: 13 Jan-1995 #sequence_regision 13 Jan-1995 #royt_change 20 Aug 1999

N;Alternate names: RXK beta2 isotorm

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A;Konidaen: 23 22; 01 31; 493 413,420 426;444 452;493 497 5152
A;Konidaen: 28 227; 01 31; 493 413,420 426;444 452;493 497 5152
A;Konidaen: Kastner, P.: Lyons, K.: Nakshatri, H.: Saunders, M.:
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A;Molecule type: mRNA
A;Residues: 1-18,787,12,787,20,88-46,70AKECIVES?,46,777,48,717,50,788687,55-56,70088
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R:Leid, M.; Kastner, P.; Lyons, R.; Nakshatri, H.; Saunders, M.; Zacharewski, L.; Che
Cell 68, 377-395, 1992
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A:Residues: 1 76 · LE3
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A;Accession: $22647
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R)Fleibrithapt, K.; Park, J.B.; EESanto, J.F.; Micks, M.; Galto, K.; Yaba,
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A; Residues: 1 117, 'A', 119 533 FEE2+
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kenalati, I.: Kanno, Y.: ezato, K.: Taketo, M.
Jone 142, 184-187, 1994
A.: The Halle more extra dene encoding EXP beta: genomic organization and two mRNA isoto.
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A:Hitle: H-ZKHIMP, a momber of the nuclear hormone receptor superfamily that binds to be Arscheteseve number: A34410; MUID:90045782
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C:Species: Mus musculus (house mouse)
C:Date: 15-Julius #sequence_revision 09-cet-1992 #text_change 20-Sep-1999
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                                                                                    21+ SSFNDFVF-----NICQAADKQLFTLYEWAKRIPHESSLFLDDQVILLRAGWNELLIAS 296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     145 LSHVEHASNESMEDTIMMECKNVVPVPTITIEMINA 240
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                                                                                                                                                                                                                                                                                                                                    y Match 18.7%; Score 221, DB 2, Length 440
Local Similarity 31.5%; Pred. No. 1.46-12;
Composervation 43; Mismatches 97; Indels
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                                                                                                                                                                                                            16 SRPSAPFTEASMMMSLTKLADKELVHMISWAKKIPGEVELSLEDQVRLLESCWMEVLMMG 75
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41.5%; Pred. No. 1.2e-12;
dive 33; Mismatches 97; Indels 18; Gaps
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Cell 67, 1251-1266, 1991
A.Title. RXKbeta: a correquiator that cohances binding of retincia acid. thyroid bermo
A:Reference number: A41651 MUID:92103690
A.Acression: A41651
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A:Accession: D41727
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A;Cross references: 30.881766, http://doi.org/10.1018/AAA/2025.1; Fib.dz06603
C;Supertamily: unassiqued etbA-related proteins; erbA transforming protein homology
                                                                                                                                     A; Molecule type: mRNA
A; Residues: 1.451 < YUA >
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cillater 28 May 1992 #sequence_reclation 28 May 1990 #text_charge deckep-1999
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C:Species: Battus moreoeficus (Norway rat)
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A:Experimental source: liver

A:Experimental source: liver

C:Experimental source: liver

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A:Start codom: C:G
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C:Date: 3-1-Dec-1994 =seeppence_rogisies 3 | Dec-1994 =text_change 17 Mar-1999
C:A besselee: P41727
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Cell 68, 377-395, 1992
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408 LPALRSIGLKCLEHLFFFKLIGDIPIDIFLMEMLEA 443
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                                                                                             195 LSHVEBASNEGMUHLLNMKCKNVVPVYDLLLEMLNA 230
                                                                                                                                                                                                                                                                                                                                                                                                                299 FSHRSTIVER-311LATGLHVHENSAHSA-GVGATFDEVLTELVSKMEDMEMDETELG) UR. 357
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                                                                                                                                                                                                     358 ATTLENPDAKGL+++++-SNPGEVETLREKVYASLETYTK@KYPF@@G++FAKILLK-4-07
                                                                                                                                                                                                                                                                                                       TO STANTIT MESMET VITA I SHAFESEKT AND FNAVIDAL VWV FAK STILLS SOCKS MET AND MILL 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        76 LMWRSIDHPGKLIEAPDEVEDROECKOVEGILEIFDMELA-TTSREREEKLOHKEYLOVK 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16 SPPSAPETEASMMUSITELAFEFLVHMISWAKETPSEVELSLENGVKLLESCWMEVLMMG 75
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C:Keywords: zine tinder $\rm ERBA+ELLI-672$ beautin: ethA transforming protein homology + $\rm ERBA+ELLI-672$

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